



**This document created by the Florida Department of Business and Professional Regulation -
850-487-1824**

TAC: Electrical

Total Mods for Electrical in Pending Review : 6

Total Mods for report: 6

Sub Code: Building

E11060		/G176-21		1	
Date Submitted	03/14/2024	Section	2703.1	Proponent	Mo Madani
Chapter	27	Affects HVHZ	Yes	Attachments	Yes
TAC Recommendation	Pending Review			Staff	Correlates
Commission Action	Pending Review			Classification	Directly

Comments

General Comments Yes

Related Modifications

Summary of Modification

Requirements pertaining to Lightning Protection Systems are not currently found within the building code. This code change does not require the installation of lightning protection systems, but simply provides guidance to those that are installing lightning protection.

Rationale

See attached

1st Comment Period History

Proponent	Mo Madani	Submitted	6/14/2024 1:52:09 PM	Attachments	No
Comment:					
Recommend disapproval. It is the Commission's policy not to include provisions in the FBC for lightning protection.					

E11060 Text Modification

See attached

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G176-21

Original Proposal

IBC: SECTION 2703 (New), 2703.1 (New), 2703.2 (New), 2703.2.1 (New), 2703.3 (New), UL Chapter 35 (New), NFPA Chapter 35 (New)

Proponents: Jonathan Roberts, UL LLC, UL LLC (jonathan.roberts@ul.com)

2021 International Building Code

Add new text as follows:

SECTION 2703 **LIGHTNING PROTECTION SYSTEMS**

2703.1 General. Where provided, lightning protection systems shall comply with Sections 2703.2 through 2703.3.

2703.2 Installation. Lightning protection systems shall be installed in accordance with NFPA 780 or UL 96A. UL 96A shall not be utilized for buildings used for the production, handling, or storage of ammunition, explosives, flammable liquids or gases, and other explosive ingredients including dust.

2703.2.1 Surge protection. Where lightning protection systems are installed, surge protective devices shall also be installed in accordance with NFPA 70 and either NFPA 780 or UL 96A, as applicable.

2703.3 Interconnection of systems. All lightning protection systems on a building or structure shall be interconnected in accordance with NFPA 780 or UL 96A, as applicable.

Add new standard(s) as follows:

UL

UL 96A-2016

Standard for Installation Requirements for Lightning Protection Systems

UL LLC
333 Pfingsten Road
Northbrook, IL 60062

NFPA

NFPA 780-20

Standard for the Installation of Lightning Protection Systems

National Fire Protection Association
1 Batterymarch Park
Quincy, MA 02169-7471

Reason:

- Requirements pertaining to Lightning Protection Systems are **not** currently found within the building code.
- This code change does not require the installation of lightning protection systems, but simply provides guidance to those that are installing lightning protection.
- NFPA 780 and UL 96A are two standards that are widely used within the industry, and are currently used for installations but are not very well known to code officials. These standards are in harmony with the provisions of the National Electrical Code, NFPA 70.
- UL 96A can be used for the installation and inspection of many lightning protection systems but the standard has limitations and these are identified in this proposal.
- This proposal is simply intended to provide the code official with assistance in addressing the installation of these types of systems if they are installed.

Cost Impact: The code change proposal will not increase or decrease the cost of construction

These standards are already used with installations today so there would not be any change in the cost of construction.

Staff Note: G175-21 and G176-21 addresses requirements in a different or contradicting manner. The committee is urged to make their intentions clear with their actions on these proposals.

Public Hearing Results

Committee Action

As Submitted

Committee Reason: This proposal was approved as the committee felt that this provided direction and criteria if you wanted to add a lightning protection systems. The committee preferred this to the mandatory requirements in G175-21. (Vote: 13-0)

Final Hearing Results

G176-21

AS

TAC: Electrical

Total Mods for Electrical in Pending Review : 6

Total Mods for report: 6

Sub Code: Building

E11673		/ADM52-22		2	
Date Submitted	05/14/2024	Section	35	Proponent	Mo Madani
Chapter	35	Affects HVHZ	Yes	Attachments	Yes
TAC Recommendation	Pending Review			Staff	Correlates
Commission Action	Pending Review			Classification	Directly

Comments

General Comments No

Related Modifications

Summary of Modification

Modification lists the updated standards in the IBC.

Rationale

See attached

E11673 Text Modification

See attached

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ADM52-22

ACCA		Air Conditioning Contractors of America	
Standard Reference Number	Title	Referenced in Code(s):	
ANSI/ACCA 1 Manual D— 2016 <u>2023</u>	Residential Duct Systems	IMC	IRC
ANSI/ACCA 10 Manual SPS — 2010 RA 2017	HVAC-Design for Swimming Pools and Spas	IMC	
ANSI/ACCA 3 Manual S— 14 <u>2023</u>	Residential Equipment Selection	IECC®	
ANSI/ACCA 3 Manual S— 2014 <u>2023</u>	Residential Equipment Selection	IRC	
ANSI/ASHRAE/ACCA 183—2007 (reaffirmed 2014)	Peak Cooling and Heating Load Calculations in Buildings Except Low-rise Residential Buildings	IMC	
AFSI		Architectural Fabric Structures Institute	
Standard Reference Number	Title	Referenced in Code(s):	
FSAAS—16 <u>AFSI-77</u>	Fabric Structures Associated Air Structures 2016 <u>Air Structures Design and Standards Manual</u>	IFC	
AHAM		Association of Home Appliance Manufacturers	
Standard Reference Number	Title	Referenced in Code(s):	
ANSI/AHAM RAC-1— 2015 <u>2020</u>	Room Air Conditioners	IECC®	
AHRI		Air-Conditioning, Heating, & Refrigeration Institute	
Standard Reference Number	Title	Referenced in Code(s):	
1160 (I-P)— 2014 <u>2022</u>	Performance Rating of Heat Pump Pool Heaters (with Addendum 1)	IECC®	
1160 (I-P)— 2014 <u>2022</u>	Performance Rating of Heat Pump Pool Heaters (with Addendum 1)	ISPSC	

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1200 (I-P)— 2019 <u>2022</u>	Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets	IECC®
1230 (I-P)— 2014 <u>2021</u>	Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-Conditioning and Heat Pump Equipment (with Addendum 1)	IECC®
1250 (I-P)— 2014 <u>(2020)</u>	Standard for Performance Rating in Walk-in Coolers and Freezers	IECC®
1360 (I-P)—2017	Performance Rating of Computer and Data Processing Room Air Conditioners	IECC®
210/240— 2017 and 2023 <u>(2020)</u>	Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment	IECC®
340/360— 2019 <u>2022</u>	Performance Rating of Commercial and Industrial Unitary Air-conditioning and Heat Pump Equipment	IECC®
390 (I-P)— 2009 <u>2021</u>	Performance Rating of Single Package Vertical Air-conditioners and Heat Pumps	IECC®
440 (I-P)— 2008 <u>2019</u>	Performance Rating of Room Fan Coils —with Addendum 1	IECC®
550/590 (I-P)— 2018 <u>2022</u>	Performance Rating of Water-chilling and Heat Pump Water-heating Packages Using the Vapor Compression Cycle	IECC®
560— 2018 <u>2000</u>	Absorption Water Chilling and Water Heating Packages	IECC®
700— 2017 <u>2019</u>	with Addendum 1 : Specifications for Refrigerants	IMC
910 (I-P)—2014	Performance Rating of Indoor Pool Dehumidifiers	IECC®
920 (I-P)— 2015 <u>2020</u>	Performance Rating of DX-Dedicated Outdoor Air System Units	IECC®

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AISC American Institute of Steel		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/AISC 341— 16 <u>22</u>	Seismic Provisions for Structural Steel Buildings	IBC
ANSI/AISC 360— 16 <u>22</u>	Specification for Structural Steel Buildings	IBC
ANSI/AISC 358— 16/s1 — 18 <u>22</u>	Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications, including Supplement No. 1	IBC
AISI American Iron and Steel Institute		
Standard Reference Number	Title	Referenced in Code(s):
AISI S100—16 (2020) w/S2—20:	North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition	IBC
AISI S100—16 (2020) w/S2—20	North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition	IRC®
ALI Automotive Lift Institute, Inc.		
Standard Reference Number	Title	Referenced in Code(s):
ALI ALCTV— 2016 <u>2022</u>	Standard for Automotive Lifts—Safety Requirements for Construction, Testing and Validation (ANSI)	IBC
AMCA Air Movement and Control Association International		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/AMCA 550—09 (Rev. 09/10) <u>22</u>	Test Method for High Velocity Wind Driven Rain Resistant Louvers	IMC

<u>ANSI/AMCA 220—19 21</u>	Laboratory Methods of Testing Air Curtain Units for Aerodynamic Performance Rating	IECC®		
<u>ANSI/AMCA 230—15 23</u>	Laboratory Methods of Testing Air Circulating Fans for Rating and Certification	IMC	IECC®	
<u>ANSI/AMCA 540—13 23</u>	Test Method for Louvers Impacted by Wind Borne Debris	IBC		
<u>ANSI/AMCA 210-ANSI/ASHRAE 51—16 23</u>	Laboratory Methods of Testing Fans for Aerodynamic Performance Rating	IRC®		
<u>ANSI/AMCA 210—16/ANSI/ASHRAE 51—16</u>	Laboratory Methods of Testing Fans for Aerodynamic Performance Rating	IMC		
ANSI	American National Standards Institute			
Standard Reference Number	Title	Referenced in Code(s):		
<u>ANSI LC 4/CSA 6.32—2012 CSA/ANSI LC 4:23/CSA 6.32:23</u>	Press-connect Metallic Fittings and valves for Use in Fuel Gas Distribution Systems	IFGC	IRC	
<u>ANSI/CSA FC 1—2014 CSA/ANSI FC 1:21/CSA C22.2 NO. 62282-3-100:21</u>	Fuel Cell Technologies—Part 3-100: Stationary Fuel Cell Power Systems—Safety	IFGC	IMC	IRC®
<u>LC 1/CSA 6.26—2016 CSA/ANSI LC 1:19/CSA 6.26:19</u>	Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)	IFGC	IRC®	
<u>ANSI Z21.41 (R2019)/CSA 6.9-2014 (R2019)</u>	Quick Disconnect Devices for Use with Gas Fuel Appliances	IFGC	IRC®	
<u>ANSI Z21.22—99 (R2003) 2015 (R2020)/CSA 4.4-2015 (R2020)</u>	Relief Valves for Hot Water Supply Systems with Addenda Z21.22a—2000 (R2003) and Z21.22b—2001 (R2003)	IPC	IRC®	
<u>ANSI Z21.24 -2015 (R2020)/CSA 6.10—2015 (R2020)</u>	Connectors for Gas Appliances	IFGC	IRC®	
<u>ANSI Z21.40.1-1996 (R2017)/CGA 2.91—1996 M96 (R2017)</u>	Gas-fired Heat Activated Air Conditioning and Heat Pump Appliances	IFGC	IRC	

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<u>ANSI Z21.50 :19/CSA 2.22— 2016 :19</u>	Vented Decorative Gas Fireplaces	IFGC	IRC®	
<u>ANSI Z21.69 :2015 (R2020)/CSA 6.16—2015 (R2020)</u>	Connectors for Movable Gas Appliances	IFGC	IRC®	
<u>ANSI Z21.75 :2016/CSA 6.27— 2016 (R2020)</u>	Connectors for Outdoor Gas Appliances and Manufactured Homes	IFGC	IRC®	
<u>ANSI Z83.11 :2016 (R2021)/CSA 1.8—2016 (R2021)</u>	Gas Food Service Equipment	IFGC		
<u>ANSI Z83.18—2017 (R2021)</u>	Recirculating Direct Gas-fired Heating and Forced Ventilation Appliances for Commercial and Industrial Applications	IFGC		
<u>CSA/ANSI Z21.11.2—2016 :19</u>	Gas-fired Room Heaters— Volume II—Unvented Room Heaters	IFGC	IRC®	
<u>CSA/ANSI Z21.56 :19/CSA 4.7— 17 :19</u>	Gas-fired Pool Heaters	IFGC	ISPSC	IRC®
<u>CSA/ANSI Z21.10.3 :19/CSA 4.3—2017 :19</u>	Gas Water Heaters—Volume III —Storage, Water Heaters with Input Ratings above 75,000 Btu per Hour, Circulating and Instantaneous	IFGC	IECC®	IRC®
<u>CSA/ANSI Z21.15 :22/CSA 9.1— 09(R2014) :22</u>	Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves	IFGC	IRC®	
<u>CSA/ANSI Z21.19 :19/CSA 1.4— 2014 :19</u>	Refrigerators Using Gas Fuel	IFGC		
<u>CSA/ANSI Z21.42—2013 (R2018)</u>	Gas-fired Illuminating Appliances	IFGC	IRC®	
<u>CSA/ANSI Z21.47 :21/CSA 2.3— 16 :21</u>	Gas-fired Central Furnaces	IECC®		
<u>CSA/ANSI Z21.58 :22/CSA 1.6— 2015 :22</u>	Outdoor Cooking Gas Appliances	IFGC	IRC®	
<u>CSA/ANSI Z21.80 :19/CSA 6.22— 11(R2016) :19</u>	Line Pressure Regulators	IFGC	IRC®	

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CSA/ANSI Z21.90 :19/CSA 6.24-2015 :19	Gas Convenience Outlets and Optional Enclosures	IRC®	
CSA/ANSI Z21.91—2017 :20	Ventless Firebox Enclosures for Gas-fired Unvented Decorative Room Heaters	IFGC	IRC®
CSA/ANSI Z21.10.1 :19/CSA 4.1—2017 :19	Gas Water Heaters—Volume I—Storage, Water Heaters with Input Ratings of 75,000 Btu per Hour or Less	IFGC	IRC®
CSA/ANSI Z21.54 :19—2014/CSA 8.4:19	Gas Hose Connectors for Portable Outdoor Gas-fired Appliances	IFGC	IRC®
A108.11— 10 18	Interior Installation of Cementitious Backer Units	IRC®	
A108.4— 09 19	Installation of Ceramic Tile with Organic Adhesives or Water-cleanable Tile-setting Epoxy Adhesive	IBC	IRC®
A108.5— 19 21	Installation of Ceramic Tile with Dry-set Portland Cement Mortar or Latex-Portland Cement Mortar. Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood), Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar	IBC	IRC®
A108.6— 19 99(R2019)	Installation of Ceramic Tile with Chemical-resistant, Water Cleanable Tile-setting and -grouting Epoxy	IBC	IRC®
A108.8— 19 99(R2019)	Installation of Ceramic Tile with Chemical-resistant Furan Resin Mortar and Grout	IBC	
A108.9— 19 99(2019)	Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout	IBC	
A118.10—14(R2019)	Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation	IPC	IRC®

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A118.1— 19 <u>19</u>	American National Standard Specifications for Dry-set Portland Cement Mortar	IBC	IRC®
A118.3— 20 <u>21</u>	American National Standard Specifications for Chemical-resistant, Water-cleanable Tile-setting and -grouting Epoxy and Water Cleanable Tile-setting Epoxy Adhesive	IBC	IRC®
A118.4— 19 <u>19</u>	American National Standard Specifications for Modified Dry-set Cement Mortar	IBC	IRC®
A118.5— 99 (R2021)	American National Standard Specifications for Chemical Resistant Furan Mortar and Grouts for Tile Installation	IBC	
A118.6—19	American National Standard Specifications for <u>Standard</u> Cement Grouts for Tile Installation	IBC	
A136.1— 19 <u>20</u>	American National Standard Specifications for <u>Organic Adhesives for the</u> Installation of Ceramic Tile	IBC	IRC®
A137.1— 19 <u>22</u>	American National Standard Specifications for Ceramic Tile	IBC	IRC®
A137.3— 17 <u>22</u>	American National Standard Specifications for Gauged Porcelain Tiles and Gauged Porcelain Tile Panel/Slabs	IBC	
ANSI E1.21— 2013 <u>2020</u>	Entertainment Technology: Temporary Structures Used for Technical Production of Outdoor Entertainment Events	IFC	
CSA/ANSI NGV 5.1— 2016 :22	Residential Fueling Appliances	IFGC	
CSA/ANSI NGV 5.2— 2017 :22	Vehicle Fueling Appliances (VFA)	IFGC	
CSA/ANSI Z21.88:19/CSA 2.33— 16 :19	Vented Gas Fireplace Heaters	IFGC	IRC®

LC 1/CSA 6.26— 2016 :19	Fuel Gas Piping Systems Using Corrugated Stainless Steel Tubing (CSST)	IFGC		
LC4/CSA 6.32—12	Press-connect Metallic Fittings for Use in Fuel Gas Distribution Systems	IRC®		
Z21.1/CSA 1.1— 2016 2018	Household Cooking Gas Appliances	IFGC	IMC	IRC
Z21.40.2/CGA 2.92—1996 (R2017)	Gas-fired Work Activated Air Conditioning and Heat Pump Appliances (Internal Combustion)	IFGC		
Z21.40.2/CSA 2.92—96 (R2017)	Gas-fired Work Activated Air-conditioning and Heat Pump Appliances (Internal Combustion)	IRC®		
Z21.41(R2019)/CSA 6.9—2014 (R2019)	Quick Disconnect Devices for use with Gas Fuel Appliances	IFGC		
Z21.47/CSA 2.3—2016	Gas-fired Central Furnaces	IFGC	IRC®	
Z21.56/CSA 4.7—2017	Gas-fired Pool Heaters	IFGC		
Z21.56a:19/CSA 4.7— 2017 :19	Gas Fired Pool Heaters	ISPSC		
Z21.88/CSA 2.33— 2016 :19	Vented Gas Fireplace Heaters	IFGC		
Z21.8— 1994 (R2012)-94(R2017)	Installation of Domestic Gas Conversion Burners	IFGC	IMC	IRC
Z83.20— 08 2016	Gas-fired Tubular Low-intensity Infrared Heaters Outdoor Decorative Appliances	IFGC	IRC®	
Z97.1— 2014 2015(R2020)	Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test	IBC	IRC®	
APA	APA - Engineered Wood Association			
Standard Reference Number	Title	Referenced in Code(s):		
ANSI/A190.1— 2017 2022	<u>Product Standard for</u> Structural Glued-laminated Timber	IRC®		

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ANSI/APA A190.1— 2017 <u>2022</u>	Product Standard for Structural Glued Laminated Timber	IBC
ANSI/APA PRR 410— 16 <u>2021</u>	Standard for Performance-Rated Engineered Wood Rim Boards	IBC
ANSI/APA PRR 410— 2016 <u>2021</u>	Standard for Performance-rated Engineered Wood Rim Boards	IRC®
ANSI/APA PRS 610.1— 2018 <u>2023</u>	Standard for Performance-Rated Structural Insulated Panels in Wall Applications	IRC®
APA PDS Supplement 1— 12 <u>23</u>	Design and Fabrication of Plywood Curved Panels (revised 2013)	IBC
APA PDS Supplement 2— 12 <u>23</u>	Design and Fabrication of Plywood-lumber Beams (revised 2013)	IBC
APA PDS Supplement 3— 12 <u>23</u>	Design and Fabrication of Plywood Stressed-skin Panels (revised 2013)	IBC
APA PDS Supplement 4— 12 <u>23</u>	Design and Fabrication of Plywood Sandwich Panels (revised 2013)	IBC
APA PDS Supplement 5— 16 <u>23</u>	Design and Fabrication of All-plywood Beams (revised 2013)	IBC
APA T300— 16 <u>23</u>	Glulam Connection Details	IBC
APA X440— 17 <u>23</u>	Product Guide: Glulam	IBC
APA X450— 18 <u>23</u>	Glulam in Residential Construction—Building—Construction Guide	IBC
API	American Petroleum Institute	
Standard Reference Number	Title	Referenced in Code(s):
Publ. RP 2028 3rd Edition—(2002, R2010) <u>(2024)</u>	Flame Arrestors in Piping Systems	IFC
Publ. RP 2009—7th Edition—(2002, R2012) <u>(2022)</u>	Safe Welding and Cutting Practices in Refineries, Gas Plants and Petrochemical Plants	IFC

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Publ 2201 5th <u>6th</u> Edition (2009; R2010) <u>(2023)</u>	Procedures for Welding or Hot Tapping on Equipment in Service	IFC
RP 1604—3rd Edition (1996 R2010) <u>(1996) (4th edition 2021)</u>	Closure of Underground Petroleum Storage Tanks	IFC
RP 1615— (1996) (6th Edition R2020) <u>(2011)</u>	Installation of Underground-petroleum Storage Systems	IFC
RP 2001— 9th <u>10th</u> Edition (2012) <u>(2022)</u>	Fire Protection in Refineries, 8th <u>8th</u> Edition	IFC
RP 2003— 8th <u>9th</u> Edition (2015) <u>(2023)</u>	Protection Against Ignitions Arising out of Static, Lightning and Stray Currents	IFC
RP 2023— 3rd <u>4th</u> Edition (2001; R2006) <u>(2023)</u>	Guide for Safe Storage and Handling of Heated Petroleum-derived Asphalt Products and Crude-oil Residue	IFC
RP 651— 4th <u>5th</u> Edition (2014) <u>(2022)</u>	Cathodic Protection of Aboveground Petroleum Storage Tanks	IFC
RP 752— 3rd <u>4th</u> Edition (2009) <u>(2022)</u>	Management of Hazards Associated with Location of Process Plant Buildings, CMA Managers Guide	IFC
Std 2000— 7th <u>7th</u> Edition (2014) <u>(7th edition R2020) 8th edition (2023)</u>	Venting Atmosphere and Low-pressure Storage Tanks: Nonrefrigerated and Refrigerated	IFC
Std 2015— 8th <u>8th</u> Edition 2001 <u>(2010)</u> <u>(2023)</u>	Requirements for Safe Entry and Clearing of Petroleum Storage Tanks	IFC
Std 2350— 4th <u>5th</u> Edition (2012) <u>(2021)</u>	Overfill Protection for Storage Tanks in Petroleum Facilities	IFC
Std 653 <u>Addendum 3</u> — 5th <u>5th</u> Edition (2010) <u>(2022)</u>	Tank Inspection, Repair, Alteration and Reconstruction	IFC
ASABE American Society of Agricultural and Biological Engineers		
Standard Reference Number	Title	Referenced in Code(s):
EP 484.3 DEC2017 <u>(R2022)</u>	Diaphragm Design of Metal-clad, Wood-frame Rectangular Buildings	IBC

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EP 486.3 SEP2017 <u>(R2021)</u>	Shallow-post and Pier Foundation Design	IBC			
EP 559.1 W/Corr. AUG2010(R2014) <u>(R2019)</u>	Design Requirements and Bending Properties for Mechanically Laminated Wood Assemblies	IBC			
S640— <u>JUL2017 (R2022)</u>	Quantities and Units of Electromagnetic Radiation for Plants (Photosynthetic Organisms)	IECC®			
ASCE/SEI		American Society of Civil Engineers Structural Engineering Institute			
Standard Reference Number	Title	Referenced in Code(s):			
19— 16 <u>22</u>	Structural Applications of Steel Cables for Buildings	IBC			
29— 19 <u>05</u>	Standard Calculation Methods for Structural Fire Protection	IBC			
49— 12 <u>21</u>	Wind Tunnel Testing for Buildings and Other Structures	IBC			
55— 16 <u>22</u>	Tensile Membrane Structures	IBC			
7— 16 <u>22</u>	Minimum Design Loads and Associated Criteria for Buildings and Other Structures	IBC	IRC®		
8— 20 <u>21</u>	Standard Specification for the Design of Cold-formed Stainless Steel Structural Members	IBC			
ASCE/SEI 24— 20 <u>14</u>	Flood Resistant Design and Construction	IFC	IRC	ISPSC	IBC
ASHRAE		ASHRAE			
Standard Reference Number	Title	Referenced in Code(s):			
140— 2014 <u>2020</u>	Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs Method of Test for Evaluating Building Performance Simulation Software	IECC®			

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146— 2011 <u>2020</u>	Testing Method of Test for Rating Pool Heaters	IECC®		
15— 2019 <u>2022</u>	Safety Standard for Refrigeration Systems	IMC	IFC	
170— 2017 <u>2021</u>	Ventilation of Health Care Facilities	IMC	IBC	IFC
34— 2019 <u>2022</u>	Designation and Safety Classification of Refrigerants	IMC	IRC®	
55— 2017 <u>2020</u>	Thermal Environmental Conditions for Human Occupancy	IECC®		
62.1— 2019 <u>2022</u>	Ventilation for Acceptable Air Quality	ISPSC		
62.1— 2019 <u>2022</u>	Ventilation for Acceptable Indoor Air Quality	IMC	IEBC	IECC®
90.1— 2016 <u>2022</u>	Energy Standard for Buildings Except Low-rise Residential Buildings	IMC	IECC®	
90.1— 2019 <u>2022</u>	Energy Standard for Buildings Except Low-rise Residential Buildings	IECC®		
90.4— 2016 <u>2022</u>	Energy Standard for Data Centers	IECC®		
ANSI/ASHRAE/ACCA Standard 183— (RA2017) <u>2007 (RA 2020)</u>	Peak Cooling and Heating Load Calculations in Buildings; Except Low-rise Residential Buildings	IECC®		
ASME		American Society of Mechanical Engineers		
Standard Reference Number	Title	Referenced in Code(s):		
A112.1.3—2000 (Reaffirmed 2020 <u>2024</u>)	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances	IRC®		
A112.1.3— 2000 (R2020) <u>2024</u>	Air Gap Fittings for Use with Plumbing Fixtures, Appliances and Appurtenances	IPC		

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A112.14.1—2003 (R2022)	Backwater Valves	IPC	
A112.14.1—2003 (R2017) (2022)	Backwater Valves	IRC®	
A112.14.3— 2021 2023	Grease Interceptors	IPC	
A112.14.4—2001 (R2017) (R2022)	Grease Removal Devices	IPC	
A112.14.6—2010 (R2020) (R2024)	FOG (Fats, Oils and Greases) Disposal Systems	IPC	
A112.18.1— 2020 /CSA B125.1— 2020 2023	Plumbing Supply Fittings	IPC	IRC®
A112.18.2— 2019 2023/CSA B125.2— 19 2023	Plumbing Waste Fittings	IPC	
A112.18.2— 2019 2023 /CSA B125.2— 2019 2023	Plumbing Waste Fittings	IRC®	
A112.18.3M—2002 (R2020) (R2022)	Performance Requirements for Backflow Protection Devices and Systems in Plumbing Fixture Fittings	IRC®	
A112.18.6—2021/CSA B125.6—21	Flexible Water Connectors	IPC	IRC®
A112.19.12— 2019 2024	Wall Mounted and Pedestal Mounted, Adjustable, Elevating, Tilting and Pivoting Lavatory, Sink, and Shampoo Bowl Carrier Systems and Drain Waste Systems	IPC	IRC®
A112.19.14—2013 (R2018 2023)	Six-Liter Water Closets Equipped with Dual Flushing Device	IRC®	
A112.19.14—2013 (R2018) (R2023)	Six-liter Water Closets Equipped with a Dual Flushing Device	IPC	
A112.19.15— 2012 () R201 2012 (R2022)	Bathtub/Whirlpool Bathtubs with Pressure Sealed Doors	IPC	IRC
A112.19.19 2016 (R2021)— 2021	Vitreous China Nonwater Urinals	IPC	
A112.19.1— 2020 2022/CSA B45.2— 20 2022	Enameled Cast Iron and Enameled Steel Plumbing Fixtures	IPC	

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A112.19.1— 2020 <u>2022</u> /CSA B45.2— 2020 <u>2022</u>	Enameled Cast-iron and Enameled Steel Plumbing Fixtures	IRC®	
A112.19.2—/CSA B45.1— 2020 <u>2021</u>	Ceramic Plumbing Fixtures	IPC	
A112.19.2— 2020 <u>2021</u> /CSA B45.1— 2020 <u>2021</u>	Ceramic Plumbing Fixtures	IPC	IRC®
A112.19.3—2021/CSA B45.4— 00 <u>(R2021)</u>	Stainless Steel Plumbing Fixtures	IPC	IRC®
A112.19.5— 2021 <u>2022</u> /CSA B45.15— 2021 <u>2022</u>	Flush Valves and Spuds for Water Closets, Urinals, and Tanks	IPC	IRC®
A112.19.7— 2012 <u>2023</u> /CSA B45.10— 2012 <u>(R2021)</u> <u>2023</u>	Hydromassage Bathtub Systems	IRC®	
A112.19.7—CSA B45.10— R <u>2012</u> / 2012 <u>(2021)</u> <u>2012</u> / <u>(R2023)</u>	Hydromassage Bathtub Systems	IPC	
A112.21.3— 1985 <u>(R2017)</u> <u>2022</u>	Hydrants for Utility and Maintenance Use	IPC	
A112.3.4— 2020 <u>2022</u> /CSA B45.9— 20 <u>2022</u>	Macerating Toilet Systems and Related Components	IRC®	
A112.36.2M—1991 <u>(R2017)</u> <u>(R2022)</u>	Cleanouts	IPC	IRC®
A112.4.14— 2004 <u>(R2019)</u> <u>2022</u>	Manually Operated, Quarter-Turn Shutoff Valves for Use in Plumbing Systems	IPC	IRC®
A112.4.14— 2019 <u>2022</u> /CSA B125.14— 19 <u>2022</u>	Manually Operated Valves for Use in Plumbing Systems	IPC	IRC®
A112.4.1— 2019 <u>2024</u>	Water Heater Relief Valve Drain Tubes	IRC®	
A112.4.2— 2020 <u>2021</u> /CSA B45.16— 20 <u>2021</u>	Water Closet Personal Hygiene Devices	IPC	
A112.4.3— 1999 <u>(R2020)</u> <u>2024</u>	Plastic Fittings for Connecting Water Closets to the Sanitary Drainage System	IPC	IRC®

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A112.4.4— 2017 <u>2022</u>	Plastic Push-Fit Drain, Waste, and Vent (DWV) Fittings	IPC		IRC®	
A112.6.1M — 1997(R2017) <u>2022</u>	Floor-Affixed Supports for Off-the-Floor Plumbing Fixtures for Public Use	IPC			
A112.6.2— 2017 <u>2022</u>	Framing-Affixed Supports for Off-the-Floor Water Closets with Concealed Tanks	IPC		IRC®	
A112.6.3— 2019 <u>2022</u>	Floor and Trench Drains	IPC		IRC®	
A112.6.4— 2003 (R2012) (R2020)	Roof, Deck, and Balcony Drains	IPC			
A112.6.7— 2010 (R2020) (R2024)	Sanitary Floor Sinks	IPC			
A112.6.9— 2005 (R2020) (R2024)	Siphonic Roof Drains	IPC			
A17.1— 2019 <u>2022</u> /CSA B44— 19 <u>2022</u>	Safety Code for Elevators and Escalators	IBC	IEBC	IFC	IRC®
A17.3— 2020 <u>2023</u>	Safety Code for Existing Elevators and Escalators	IEBC		IFC	
A18.1— 2020 <u>2023</u>	Safety Standard for Platform Lifts and Stairway Chairlifts	IBC	IEBC	IRC®	
ASME A17.1— 2019 <u>2022</u> /CSA B44— 19 <u>2022</u>	Safety Code for Elevators and Escalators	IPMC		IECC®	
ASME A17.1— 2019 <u>2022</u> /CSA B44— 2019 <u>2022</u>	Safety Code for Elevators and Escalators	IRC®			
ASSE 1016— 2020 <u>2021</u> /ASME 112.1016— 2020 <u>2021</u> /CSA B125.16— 2020 <u>2021</u>	Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations	IPC		IRC®	
B1.13M— 2006 <u>2020</u>	Metric Screw Threads: M Profile	IMC			
B1.1— 2009 <u>2024</u>	Unified Inch Screw Threads, UN and UNR Thread Form	IMC			
B1.20.1— 2019 <u>2023</u>	Pipe Threads, General Purpose (inch)	IFGC	IMC	IPC	IRC®

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B1.20.3— 1976 <u>2023</u>	Dryseal Pipe Threads, Inch	IMC				
B16.12— 2009 (R2019) <u>2024</u>	Cast Iron Threaded Drainage Fittings	IPC			IRC®	
B16.15— 2013 <u>2023</u>	Cast Alloy Threaded Fittings: Glasses 125 and 250	ISPSC				
B16.15— 2013 <u>2023</u>	Cast Alloy Threaded Fittings: Glasses 125 and 250	IMC	IPC		IRC®	
B16.18— 2018 <u>2023</u>	Cast Copper Alloy Solder Joint Pressure Fittings	IMC	IPC	IBC	IFC	IRC®
B16.22— 2018 <u>2023</u>	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings	IMC	IPC	IBC	IFC	IRC®
B16.26— 2018 <u>2023</u>	Cast Copper Alloy Fittings for Flared Copper Tubes	IMC		IPC		IRC®
B16.29— 2017 <u>2022</u>	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings (DWV)	IPC			IRC®	
B16.33— 2012 (R2017) <u>2022</u>	Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2)	IRC®				
B16.33— 2012 (R2017) <u>2022</u>	Manually Operated Metallic Gas Valves for Use in Gas Piping Systems up to 125 psig (Sizes 1/2 through 2)	IFGC				
B16.34— 2020 <u>2023</u>	Valves—Flanged, Threaded and Welding End	IPC			IRC®	
B16.44— 2012 (R2017) <u>2022</u>	Manually Operated Metallic Gas Valves for Use in Above-ground Piping Systems up to 5 psi	IFGC			IRC®	
B16.47— 2020 <u>2023</u>	Large Diameter Steel Flanges: NPS 26 through NPS 60 Metric/Inch Standard	IFGC				
B16.5— 2019 <u>2024</u>	Pipe Flanges and Flanged Fittings: NPS 1/2 through NFPS 24 Metric/Inch Standard	IFGC			IMC	

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B16.9— 2018 <u>2023</u>	Factory-Made Wrought Steel Buttwelding Fittings	IMC	IPC	IRC®	
B20.1— 2021 <u>2024</u>	Safety Standard for Conveyors and Related Equipment	IBC			
B251/B251M—2017	Specification for General Requirements for Wrought Seamless Copper and Copper-alloy Tube	IPSDC			
B31.12— 2019 <u>2024</u>	Hydrogen Piping and Pipelines	IFGC			
B31.1— 2020 <u>2022</u>	Power Piping	IFC			
B31.3— 2020 <u>2022</u>	Process Piping	IFGC	IBC	IFC	
B31.4— 2019 <u>2022</u>	Pipeline Transportation Systems for Liquids and Slurries	IFC			
B31.5— 2019 <u>2022</u>	Refrigeration Piping and Heat Transfer Components	IMC	IPC		
B31.9— 2020 <u>2023</u>	Building Services Piping	IMC	IFC		
B36.10M— 2018 <u>2023</u>	Welded and Seamless Wrought-steel Pipe	IFGC	IRC®		
BPVC— 2019 <u>2023</u>	ASME Boiler and Pressure Vessel Code (Sections I, II, IV, V & VI, VIII)	IFGC	IMC	IFC	IRC®
CSD-1— 2021 <u>2024</u>	Controls and Safety Devices for Automatically Fired Boilers	IFGC	IMC	IRC®	

ASPE		American Society of Plumbing Engineers		
Standard Reference Number	Title	Referenced in Code(s):		
45— 2013 <u>2018</u>	Siphonic Roof Drainage Systems	IPC		
ASPE/IAPMO Z1034—2015 (R2020)	Test Method for Evaluating Roof Drain Performance	IPC		

ASSE		ASSE International		
Standard Reference Number	Title	Referenced in Code(s):		

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1003— 09 <u>2020</u>	Performance Requirements for Water Pressure Reducing Valves for Domestic Water Distribution	IPC	
1003— 2011 <u>2020</u>	Performance Requirements for Water-pressure-reducing Valves for Domestic Water Distribution Systems	IRC®	
1008— 06 <u>2020</u>	Performance Requirements for Plumbing Aspects of Food Waste Disposer Units	IPC	
1008— 2006 <u>2020</u>	Performance Requirements for Plumbing Aspects of Residential Food Waste Disposer Units	IRC®	
1013— 2017 <u>2021</u>	Performance Requirements for Reduced Pressure Principle Backflow Prevention Assemblies Preventers and Reduced Pressure Principle Fire Protection Backflow Preventers	IRC®	
1015— 2017 <u>2021</u>	Performance Requirements for Double Check Backflow Prevention Assemblies and Double Check Fire Protection Backflow Prevention Assemblies	IPC	IRC®
1018— 2001 <u>2021</u>	Performance Requirements for Trap Seal Primer Valves; Potable Water Supplied	IPC	IRC®
1019— 2011 (R2016)	Performance Requirements for Vacuum Breaker Wall Hydrants, Freeze Resistant, Automatic Draining Type <u>Performance Requirements for Freeze-resistant, Wall Hydrants, Vacuum Breaker, Draining Types</u>	IPC	IRC®
1020— 04 <u>2020</u>	Performance Requirements for Pressure Vacuum Breaker Assembly	IPC	
1020— 2004 <u>2020</u>	Performance Requirements for Pressure Vacuum Breaker Assembly	IRC®	
1022— 2017 <u>2021</u>	Performance Requirements for Backflow Preventer for Beverage Dispensing Equipment	IPC	

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1023— 1979 <u>2020</u>	Performance Requirements for <u>Electrically Heated or Cooled Hot</u> Water Dispensers, Household storage type—Electrical	IRC®	
1024— 2017 <u>2021</u>	Performance Requirements for Dual Check Valve Type Backflow Preventers, Anti-siphon-type, Residential Applications	IPC	IRC®
1035— 08 <u>2020</u>	Performance Requirements for Laboratory Faucet Backflow Preventers	IPC	
1035— 2008 <u>2020</u>	Performance Requirements for Laboratory Faucet Backflow Preventers	IRC®	
1044— 2015 <u>2020</u>	Performance Requirements for Trap Seal Primer Devices—Drainage Types and Electronic Design Types	IPC	IRC®
1047— 2011 <u>2021</u>	Performance Requirements for Reduced Pressure Detector Fire Protection Backflow Prevention Assemblies	IPC	IRC®
1048— 2011 <u>2021</u>	Performance Requirements for Double Check Detector Fire Protection Backflow Prevention Assemblies	IPC	IRC®
1049— 2009 <u>2021</u>	Performance Requirements for Individual and Branch Type Air Admittance Valves for Chemical Waste Systems	IPC	
1050— 2009 <u>2021</u>	Performance Requirements for Stack Air Admittance Valves for Sanitary Drainage Systems	IPC	IRC®
1051— 2009 <u>2021</u>	Performance Requirements for Individual and Branch Type Air Admittance Valves for Sanitary Drainage Systems fixture and Branch Devices	IPC	IRC®
1056— 2019 <u>2021</u>	Performance Requirements for Spill-Resistant Vacuum Breaker	IPC	IRC®

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1060— 2016 <u>2020</u>	Performance Requirements for Outdoor Enclosures for Fluid-conveying Components	IRC®		
1060— 2017 <u>2020</u>	Performance Requirements for Outdoor Enclosures for Fluid Conveying Components	IPC		
1061— 2015 <u>2020</u>	Performance Requirements for Push Fit Fittings	IMC	IPC	IRC®
1062— 2017 <u>2021</u>	Performance Requirements for Temperature Actuated, Flow Reduction (TAFR) Valves to Individual Supply Fittings	IPC		IRC®
1064— 2006 (R2011) <u>2020</u>	Performance Requirements for Backflow Prevention Assembly Field Test Kits	IPC		
1069— 05 <u>2020</u>	Performance Requirements for Automatic Temperature Control Mixing Valves	IPC		
1071— 2012 <u>2021</u>	Performance Requirements for Temperature Actuated Mixing Valves for Plumbed Emergency Equipment	IPC		
1072— 07 <u>2020</u>	Performance Requirements for Barrier Type Floor Drain Tap Seal Protection Devices	IPC		
1072— 2007 <u>2020</u>	Performance Requirements for Barrier-type <u>Trap Seal Protection</u> for Floor Drains Trap Seal Protection Devices	IRC®		
1079— 2005 <u>2021</u>	Performance Requirements for Dielectric Pipe Unions	IMC	IPC	
1081— 2014 <u>2020</u>	Performance Requirements for Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems	IPC		IRC®

5013—2015	Performance Requirements for Testing Reduced Pressure Principle Backflow Prevention Assembly Preventers (RPA) and Reduced Pressure Principle Fire Protection Backflow Preventers (RFP)	IPC
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<u>ASSE/APMO 1055—2018 2020</u>	Performance Requirements for Chemical Dispensing Systems with Integral Backflow Protection	IPC
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ASSP		American Society of Safety Professionals	
Standard Reference Number	Title	Referenced in Code(s):	
<u>ANSI/ASSP Z359.1 -2020</u>	The Fall Protection Code	IFGC	
<u>ANSI/ASSE Z359.1—2018 2020</u>	The Fall Protection Code	IBC	
<u>ANSI/ASSP Z359.1—2018 2020</u>	The Fall Protection Code	IMC	IFC

ASTM		ASTM International		
Standard Reference Number	Title	Referenced in Code(s):		
A105/A105M— 48 <u>21</u>	Standard Specification for Carbon Steel Forgings for Piping Applications	IMC		
A106/A106M— 2018 <u>2019a</u>	Specification for Seamless Carbon Steel Pipe for High-temperature Service	IFGC	IMC	IRC®
A126—04(2014 <u>2019</u>)	<u>Standard</u> Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings	IMC		IRC®
A181/A181M—14(<u>2020</u>)	Standard Specification for Carbon Steel Forgings, for General-purpose Piping	IMC		
A182/A182M— 2018A <u>21</u>	Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-temperature Service	ISPSC		

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A193/A193M— 49 <u>20</u>	Standard Specification for Alloy-steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications	IMC			
A234/A234M— 18A <u>19</u>	Standard Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and High Temperature Service	IMC			
A240/A240M— 47 <u>20a</u>	Standard Specification for Chromium and Chromium- n <u>Nickel</u> Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications	IMC	IBC	ISPSC	IRC®
A252— 2010(2010) <u>/A252M-19</u>	Specification for Welded and Seamless Steel Pipe Piles	IBC			
A254— 2010(2010) <u>/A254M-12(2019)</u>	Specification for Copper Brazed Steel Tubing	IFGC	IMC	IRC®	
A268/A268M— 2010(16) <u>20</u>	Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service	IRC®			
A268/A268— 2010(16) <u>20</u>	Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service	IFGC			
A269/A269M-15a <u>2019</u>	Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service	IFGC	IMC	IPC	IRC®
A307— 2014E+ <u>21</u>	Specification for Carbon Steel Bolts and Studs, and <u>Threaded Rod</u> 60,000 psi <u>PSI</u> Tensile Strength	IRC®			
A312/A312M— 2010 <u>21</u>	Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes	IPC			
A312/A312M— 2010 <u>21</u>	Standard Specification for Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes	IFGC		ISPSC	

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A312/A312M— 47 <u>21</u>	Standard Specification for Seamless, Welded, and Heavily Cold Worked Austenitic Stainless Steel Pipes	IMC		
A312/A312M— 2018 <u>21</u>	Specification for Seamless, Welded and Heavily Cold Worked Austenitic Stainless Steel Pipes	IRC®		
A334/A334M—04a(2016 <u>2021</u>)	Standard Specification for Seamless and Welded Carbon and Alloy-steel Tubes for Low-temperature Service	IMC		
A36/A36M— 14 <u>19</u>	Specification for Carbon Structural Steel	IBC	IRC®	
A395/A395M—99(2014) <u>2018</u>	Standard Specification for Ferritic Ductile Iron Pressure-retaining Castings for Use at Elevated Temperatures	IMC		
A403/A403M— 2018A <u>20</u>	Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings	ISPSC		
A416/A416M— 2017A <u>18</u>	<u>Standard Specification for Low-Relaxation , Uncoated Seven-Wire Steel Strand for Prestressed Concrete</u>	IBC		
A420/A420M— 2016 <u>20</u>	Specification for Piping Fittings of Wrought Carbon Steel and Alloy Steel for Low-temperature Service	IMC		
A463/A463M—15 (<u>2020</u>) <u>e1</u>	Standard Specification for Steel Sheet, Aluminum-coated, by the Hot-dip Process	IBC	IRC®	
A53/A53M— 2010 <u>2020</u>	Specification for Pipe, Steel, Black and Hot-dipped, Zinc-coated Welded and Seamless	IPC		
A53/A53M— 2010 <u>2020</u>	Specification for Pipe, Steel, Black and Hot Dipped Zinc-coated Welded and Seamless	IFGC	IMC	IRC®
A536—84(2014) (<u>2019</u>) <u>e1</u>	Standard Specification for Ductile Iron Castings	IMC		
A563/A563M— 15 <u>21a</u>	Standard Specification for Carbon and Alloy Steel Nuts	IRC®		

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A572/A572M— 2010 <u>21e1</u>	Specification for High-strength Low-alloy Columbium-Vanadium Structural Steel	IBC	
A588/A588M— 45 <u>19</u>	Standard Specification for High- s Strength Low- a Alloy Structural Steel, with up to 50 ksi <u>[345 MPa]</u> Minimum Yield Point with Atmospheric Corrosion Resistance	IBC	
A6/A6M— 2017A <u>2019</u>	Standard Specification for General Requirements for Rolled Structural Steel Bars, Plates, Shapes and Sheet Piling	IBC	
A615/A615M— 45ae+ <u>20</u>	Standard Specification for Deformed and Plain Carbon- s Steel Bars for Concrete Reinforcement	IBC	
A615/A615M— 2015ae+ <u>20</u>	Standard Specification for Deformed and Plain Carbon- s Steel Bars for Concrete Reinforcement	IRC®	
A641/A641M— 09a(2014) <u>19</u>	Specification for Zinc-coated (Galvanized) Carbon Steel Wire	IRC®	
A653/A653M— 2017 <u>2020</u>	Specification for Steel Sheet, Zinc-coated (Galvanized) or Zinc-iron Alloy-coated (Galvannealed) by the Hot-dip Process	IRC®	
A653/A653M— 2017 <u>2020</u>	Specification for Steel Sheet, Zinc-coated Galvanized or Zinc-iron Alloy-coated Galvannealed by the Hot-dip Process	IBC	
A706/A706M—2016	Standard Specification for Deformed and Plain Low- a Alloy Steel Bars for Concrete Reinforcement	IBC	IRC®
A74— 47 <u>2021</u>	Specification for Cast-iron Soil Pipe and Fittings	IPC	
A74—2017	Specification for Cast-iron Soil Pipe and Fittings	IRC®	

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A755/A755M— 2016E+ <u>18</u>	Specification for Steel Sheet, Metallic-coated by the Hot-dip Process and Prepainted by the Coil-coating Process for Exterior Exposed Building Products	IBC	
A755M/ <u>A755M</u> — 2016E+ <u>18</u>	Specification for Steel Sheet, Metallic Coated by the Hot-dip Process and Prepainted by the Coil-coating Process for Exterior Exposed Building Products	IRC®	
A778/A778M— <u>16(2021)</u>	Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products	IPC	
A778M/ <u>A778M</u> — 2016 <u>(2021)</u>	Specification for Welded Unannealed Austenitic Stainless Steel Tubular Products	IRC®	
A792/A792M— 10(2015) <u>21a</u>	Specification for Steel Sheet, 55% Aluminum-zinc Alloy-coated by the Hot-dip Process	IBC	IRC®
A875/A875M— 13 <u>21</u>	Standard Specification for Steel Sheet, Zinc-5%, Aluminum Alloy-coated by the Hot-dip Process	IBC	IRC®
A888— 2010 <u>21a</u>	Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Application	IPC	IRC®
A924/A924M— 2017A <u>20</u>	Standard Specification for General Requirements for Steel Sheet, Metallic-coated by the Hot-dip Process	IBC	
A924M— 2017A <u>20</u>	Standard Specification for General Requirements for Steel Sheet, Metallic-coated by the Hot-dip Process	IRC®	
B101— <u>12(2019)</u>	Specification for Lead-coated Copper Sheet and Strip for Building Construction	IBC	IRC®
B152/B152M— 13 <u>19</u>	<u>Standard</u> Specification for Copper Sheet, Strip, Plate, and Rolled Bar	IPC	
B209— 14 <u>21</u>	Specification for Aluminum and Aluminum Alloy Steel and Plate	IBC	IRC®

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B210/B210M—19a	Standard Specification for Aluminum and Aluminum-alloy Drawn Seamless Tubes	IFGC			IMC			
B280— 18 <u>20</u>	Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service	IFGC	IMC	IFC	IRC	IBC		
B306— 19 <u>20</u>	Specification for Copper Drainage Tube (DWV)	IPC			IRC®			
B32— 08(2014) <u>20</u>	Specification for Solder Metal	IMC	IPC		IRC®			
B370—12(<u>2019</u>)	Specification for Copper Sheet and Strip for Building Construction	IBC			IRC®			
B42— 15a <u>20</u>	Specification for Seamless Copper Pipe, Standard Sizes	IMC	IPC	IFC	IRC	IBC		
B43— 15 <u>20</u>	Specification for Seamless Red Brass Pipe, Standard Sizes	IMC	IPC	IBC	IFC	IRC®		
B447—12a(<u>2021</u>)	Specification for Welded Copper Tube	IPC		ISPSC		IRC®		
B68/B68M— 14 <u>19</u>	<u>Standard</u> Specification for Seamless Copper Tube, Bright Annealed (Metric)	IMC		IBC		IFC		
B75/B75M— 14 <u>20</u>	Specification for Seamless Copper Tube	IMC		IPC		IRC®		
B819— 2018 <u>19</u>	Standard Specification for Seamless Copper Tube for Medical Gas Systems	IMC						
B88— 2016 <u>20</u>	Specification for Seamless Copper Water Tube	IFGC	IMC	IPC	IBC	IFC	ISPSC	IRC®
C1002— 2018 <u>20</u>	Specification for Steel Self-piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs	IBC			IRC®			
C1007— 11a(2015) <u>20</u>	Specification for Installation of Load Bearing (Transverse and Axial) Steel Studs and Related Accessories	IBC						

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C1029— 15 <u>20</u>	Specification for Spray-applied Rigid Cellular Polyurethane Thermal Insulation	IBC	IRC®	
C1047— 14a <u>19</u>	Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base	IRC®		
C1063— 2010B <u>21</u>	Specification for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-based Plaster	IBC	IRC®	
C1088— 2010 <u>20</u>	Specification for Thin Veneer Brick Units Made from Clay or Shale	IBC	IRC®	
C1107/C1107M— 2017 <u>20</u>	Standard Specification for Packaged Dry, Hydraulic-cement Grout (Nonshrink)	IRC®		
C1157/C1157M— 2017 <u>20a</u>	Standard Performance Specification for Hydraulic Cement	IBC		
C126— 2017 <u>19</u>	Standard Specification for Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units	IRC®		
C1277— 2010 <u>20</u>	Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe and Fittings	IPC	IPSDC	IRC®
C1280— 13a <u>18</u>	Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing	IBC		
C1283—2015(<u>2021</u>)	Practice for Installing Clay Flue Lining	IBC	IRC®	
C1288—2017	Standard Specification for Discrete Nonasbestos Fiber-cement Interior Substrate Sheets	IBC	IRC®	
C1289— 2010 <u>21</u>	Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board	IBC	IRC®	
C1313/C1313M—13(<u>2019</u>)	Standard Specification for Sheet Radiant Barriers for Building Construction Applications	IBC		

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C1325— 2018 <u>21</u>	Standard Specification for Nonasbestos Fiber-mat Reinforced Cement Backer Units	IBC	IRC®		
C1328/C1328M— 12 <u>19</u>	Specification for Plastic (Stucco Cement)	IBC	IRC®		
C1363— 11 <u>19</u>	Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus	IECC®	IRC®		
C1364— 2017 <u>19</u>	Standard Specification for Architectural Cast Stone	IBC	IRC®		
C140/C140M— 2018 <u>21</u>	Test Method Sampling and Testing Concrete Masonry Units and Related Units	IBC			
C1405— 2016 <u>20a</u>	Standard Specification for Glazed Brick (Single Fired, Brick Units)	IRC®			
C143/C143M— 15A <u>20</u>	Test Method for Slump of Hydraulic Cement Concrete	IRC®			
C1440— 2017 <u>21</u>	Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste, and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems	IPC	IPSDC	IRC	
C1440— 2017 <u>21</u>	Specification for Thermoplastic Elastomeric (TPE) Gasket Materials for Drain, Waste and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems	IRC®			
C1460— 2017 <u>21</u>	Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground	IPC	IPSDC	IRC®	
C1460— 2017 <u>21</u>	Specification for Shielded Transition Couplings for Use with Dissimilar DWV Pipe and Fittings Above Ground	IRC®			

C1461— 2008(2017) <u>21</u>	Specification for Mechanical Couplings Using Thermoplastic Elastomeric (TPE) Gaskets for Joining Drain, Waste and Vent (DWV) Sewer, Sanitary and Storm Plumbing Systems for Above and Below Ground Use	IPC	
C14— 15a <u>20</u>	Specification for Nonreinforced Concrete Sewer, Storm Drain and Culvert Pipe	IPC	IRC®
C150/C150M— 2018 <u>21</u>	Specification for Portland Cement	IBC	IRC®
C1540— 2018 <u>20</u>	Specification for Heavy Duty Shielded Couplings Joining Hubless Cast-iron Soil Pipe and Fittings	IPC	
C1563— 2008(2017) <u>(2021)</u>	Standard Test Method for Gaskets for Use in Connection with Hub and Spigot Cast Iron Soil Pipe and Fittings for Sanitary Drain, Waste, Vent and Storm Piping Applications	IPC	
C1568— 08(2013) <u>(2020)</u>	Standard Test Method for Wind Resistance of Concrete and Clay Roof Tiles (Mechanical Uplift Resistance Method)	IBC	
C1600/C1600M— 2017 <u>19</u>	Standard Specification for Rapid Hardening Hydraulic Cement	IBC	
C1629/C1629M— 2018A <u>19</u>	Standard Classification for Abuse-resistant Nondecorated Interior Gypsum Panel Products and Fiber-reinforced Cement Panels	IBC	
C1634— 2017 <u>20</u>	Standard Specification for Concrete Facing Brick <u>and Other Concrete Masonry Facing Units</u>	IRC®	
C1658/C1658M— 2018 <u>19e1</u>	Standard Specification for Glass Mat Gypsum Panels	IBC	IRC®
C1668— 13a <u>20</u>	Standard Specification for Externally Applied Reflective Insulation Systems on Rigid Duct in Heating, Ventilation, and Air Conditioning (HVAC) Systems	IRC®	

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C1670/1670M— 2018 <u>2021a</u>	Standard Specification for Adhered Manufactured Stone Masonry Veneer Units	IRC®			
C1670/C1670M— 2018 <u>21a</u>	Standard Specification for Adhered Manufactured Stone Masonry Veneer Units	IBC			
C1766—2015(<u>2019</u>)	Standard Specification for Factory-laminated Gypsum Panel Products	IBC	IRC®		
C1788— 14 <u>20</u>	Standard Specification for Non Metallic Plaster Bases (Lath) Used with Portland Cement Based Plaster in Vertical Wall Applications	IBC			
C208—2012(2017) E+ <u>e2</u>	Specification for Cellulosic Fiber Insulating Board	IBC	IRC®		
C212— 2017 <u>21</u>	Standard Specification for Structural Clay Facing Tile	IRC®			
C216— 2017A <u>21</u>	Specification for Facing Brick (Solid Masonry Units Made from Clay or Shale)	IBC	IRC®		
C22/C22M—00(2015) <u>(2021)</u>	Specification for Gypsum	IBC	IRC®		
C270— 14A <u>19ae1</u>	Specification for Mortar for Unit Masonry	IRC®			
C28/C28M—10(2015) <u>2020</u>	Specification for Gypsum Plasters	IBC	IRC®		
C31/C31M— 2018B <u>21a</u>	Practice for Making and Curing Concrete Test Specimens in the Field	IBC			
C315—2007(2016) <u>(2021)</u>	Specification for Clay Flue Liners and Chimney Pots	IFGC	IMC	IBC	IRC®
C317/C317M—2000 (2015) <u>(2019)</u>	Specification for Gypsum Concrete	IBC			
C34—2017	<u>Standard Specification for Structural Clay Load-bearing Loadbearing Wall Tile</u>	IRC®			

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C35/C35M— (2014) <u>01(2019)</u>	Specification for Inorganic Aggregates for Use in Gypsum Plaster	IRC®		
C35/C35—01 (2014) <u>(2019)</u>	Specification for Inorganic Aggregates for Use in Gypsum Plaster	IBC		
C411— 2017 <u>2019</u>	Test Method for Hot-surface Performance of High-temperature Thermal Insulation	IMC	IRC®	
C425— 2004(2018) <u>21</u>	Specification for Compression Joints for Vitrified Clay Pipe and Fittings	IPC	IPSDC	IRC
C443— 2012(2017) <u>20</u>	Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets	IPC		
C443— 2012(2017) <u>20</u>	Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets	IRC®		
C472— 99(2014) <u>20</u>	Standard Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	IBC		
C473— 2017 <u>2019</u>	Test Methods for Physical Testing of Gypsum Panel Products	IBC		
C474—15 (2020)	Test Methods for Joint Treatment Materials for Gypsum Board Construction	IBC		
C475M—2017	Specification for Joint Compound and Joint Tape for Finishing Gypsum Wallboard	IRC®		
C476— 2018 <u>2020</u>	Specification for Grout for Masonry	IRC®		
C503M/ <u>C503M</u> —2015	Standard Specification for Marble Dimension Stone	IRC®		
C514—04 (2014) <u>(2020)</u>	Specification for Nails for the Application of Gypsum Board	IBC	IRC®	
C516— 2008(2014) <u>E+ 19</u>	Specifications for Vermiculite Loose Fill Thermal Insulation	IBC		

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C547— 2017 <u>19</u>	Specification for Mineral Fiber Pipe Insulation	IBC	
C549— 06(2012) <u>18</u>	Specification for Perlite Loose Fill Insulation	IBC	
C552— 2017E+ <u>21a</u>	Standard Specification for Cellular Glass Thermal Insulation	IBC	IRC®
C564— 14 <u>20a</u>	Specification for Rubber Gaskets for Cast-iron Soil Pipe and Fittings	IPC	IRC®
C578— 2018 <u>19</u>	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation	IBC	IRC®
C59/C59M— 00(2015) <u>(2020)</u>	Specification for Gypsum Casting Plaster and Molding Plaster	IBC	IRC®
C595/C595M— 2018 <u>21</u>	Specification for Blended Hydraulic Cements	IBC	IRC®
C61/C61M— 00(2015) <u>(2020)</u>	Specification for Gypsum Keene's Cement	IBC	IRC®
C631— 09(2014) <u>2020</u>	Specification for Bonding Compounds for Interior Gypsum Plastering	IBC	IRC®
C636/C636M— 13 <u>19</u>	Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels	IBC	
C652— 2017A <u>21</u>	Specification for Hollow Brick (Hollow Masonry Units Made from Clay or Shale)	IBC	IRC®
C67/C67M— 2018 <u>21</u>	Test Methods of Sampling and Testing Brick and Structural Clay Tile	IBC	
C754— 2018 <u>20</u>	Specification for Installation of Steel Framing Members to Receive Screw-attached Gypsum Panel Products	IBC	
C76— 2018A <u>20</u>	Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe	IPC	

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C76— 2018A <u>20</u>	Specification for Reinforced Concrete Culvert, Storm Drain and Sewer Pipe	IPC	IPSDC	IRC®
C840— 2018A <u>20</u>	Specification for Application and Finishing of Gypsum Board	IBC		
C842— 05(2015) <u>(2021)</u>	Specification for Application of Interior Gypsum Plaster	IBC	IRC®	
C844—2015 <u>(2021)</u>	Specification for Application of Gypsum Base to Receive Gypsum Veneer Plaster	IBC	IRC®	
C847— 14a <u>2018</u>	Specification for Metal Lath	IBC		
C887— 19 <u>20</u>	Specification for Packaged, Dry Combined Materials for Surface Bonding Mortar	IBC	IRC®	
C897—15 <u>(2020)</u>	Specification for Aggregate for Job-mixed Portland Cement-based Plaster	IBC	IRC®	
C926— 2018B <u>20b</u>	Specification for Application of Portland Cement-based Plaster	IBC	IRC®	
C932— 06(2013) <u>(2019)</u>	Specification for Surface-applied Bonding Compounds for Exterior Plastering	IBC		
C94/C94M— 17A <u>21b</u>	Specification for Ready-mixed Concrete	IEBC		
C94/C94M— 2017A <u>21b</u>	Specification for Ready-mixed Concrete	IBC	IRC®	
C956— 04(2015) <u>(2019)</u>	Specification for Installation of Cast-in-place Reinforced Gypsum Concrete	IBC		
D1003— 19 <u>21</u>	Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics	IECC®		
D1143/D1143M— 2007(2013)E+ <u>20</u>	<u>Standard Test Methods for Deep Foundations Elements Under Static Axial Compressive Load</u>	IBC		

D1227—13(2019)e1	Specification for Emulsified Asphalt Used as a Protective Coating for Roofing	IBC	IRC®	
D1557—12e+ (2021)	Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort [56,000 ft-lb/ft³ (2,700 kN m/m³)]	IBC		
D1593—49 19	Standard Specification for Nonrigid Vinyl Chloride Plastic Film and Sheeting	ISPSC		
D1693—15e1	Test Method for Environmental Stress-cracking of Ethylene Plastics	IMC	IRC®	
D1784—11 20	Standard Specification <u>Classification System and Basis</u> for Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds	IRC®		
D1785—2015E+ 21a	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120	IPC		
D1785—15E1	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120	IMC	ISPSC	IRC®
D1929—46 20	Standard Test Method for Determining Ignition Temperature of Plastics	IBC		
D1970/D1970M—2017A 21	Specification for Self-adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roof Underlayment for Ice Dam Protection	IBC	IRC®	
D2178/D2178M—15A(2021)	Specification for Asphalt Glass Felt Used in Roofing and Waterproofing	IBC	IRC®	
D2239—12A 21	Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter	IRC®		

D2241— 15 <u>20</u>	Specification for Poly (Vinyl Chloride) (PVC) Pressure-rated Pipe (SDR-Series)	IMC	IPC	ISPSC	IRC®
D2412— 11(2010) <u>21</u>	Test Method for Determination of External Loading Characteristics of Plastic Pipe by Parallel-plate Loading	IMC			
D2466— 2017 <u>21</u>	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	IMC	IPC	ISPSC	IRC
D2466— 2017 <u>21</u>	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40	IMC	ISPSC		IRC®
D2467— 15 <u>20</u>	Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80	IMC	IPC	ISPSC	IRC®
D2487— 2017 <u>17e1</u>	Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)	IBC			
D2513— 2018A <u>20</u>	Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing and Fittings	IFGC		IRC®	
D2564— 2012(2010) <u>20</u>	Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems	IMC	IPC	IRC	
D2609— 15 <u>21</u>	Specification for Plastic Insert Fittings for Polyethylene (PE) Plastic Pipe	IPC		IRC®	
D2626/D2626M— 04 (2012)e1 (2020)	Specification for Asphalt-saturated and Coated Organic Felt Base Sheet Used in Roofing	IBC		IRC®	
D2665— 2014 <u>20</u>	Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings	IPC			
D2672— 14 <u>20e1</u>	Specification for Joints for IPS PVC Pipe Using Solvent Cement	IPC	ISPSC		IRC®
D2680— 01(2014) <u>20</u>	Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) and Poly(Vinyl Chloride) (PVC) Composite Sewer Piping	IPC		IRC®	

D2683— 14 <u>20</u>	Specification for Socket-type Polyethylene Fittings for Outside Diameter-controlled Polyethylene Pipe and Tubing	IMC	IPC	IRC®
D2737— 12a <u>21</u>	Standard Specification for Polyethylene (PE) Plastic Tubing	IMC	IPC	IBC
D2822/D2822M—2005(2011) <u>e1</u>	Specification for Asphalt Roof Cement, Asbestos Containing	IBC		IRC®
D2843— 46 <u>19</u>	Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics	IBC		
D2846/D2846M— 2017BE1 <u>19a</u>	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-Water Distribution Systems	IPC		
D2846/D2846M—2017BE1	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Hot- and Cold-water Distribution Systems	IMC	ISPSC	IRC®
D2855— 2015 <u>2020</u>	<u>Standard Practice for Making Solvent-cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings. Standard Practice for the Two-Step (Primer and Solvent Cement) Method of Joining Poly (Vinyl Chloride) (PVC) or Chlorinated Poly (Vinyl Chloride) (CPVC) Pipe and Piping Components with Tapered Sockets.</u>	IPC		
D2859—2016	Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials	IBC		
D2859— 46 <u>2016(2021)</u>	Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials	IFC		
D2949— 40 <u>18</u>	Specification for 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings	IPC		IRC®
D3035— 45 <u>21</u>	Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter	IMC	IPC	IRC®

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D312/D312M—2016M_a	Specification for Asphalt Used in Roofing	IBC		IRC®
D3138—04(2011)	Standard Specification for Solvent Cements for Transition Joints Between Acrylonitrile-Butadiene-Styrene (ABS) and Poly (Vinyl Chloride) (PVC) Non-Pressure Piping Components	IRC®		
D3139— 98(2011) <u>19</u>	Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals	IPC		
D3161/D3161M— 2016A <u>20</u>	Test Method for Wind Resistance of Steep Slope Roofing Products (Fan Induced Method)	IBC	IRC®	
D3201/D3201M— 13 <u>20</u>	Test Method for Hygroscopic Properties of Fire-retardant-treated Wood and Wood-based Products	IBC	IRC®	
D3212— 07(2013) <u>20</u>	Specification for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals	IPC	IRC®	
D323— 15A <u>20a</u>	Test Method for Vapor Pressure of Petroleum Products (Reid Method)	IFC		
D3278— 96(2011) <u>21</u>	Test Methods for Flash Point of Liquids by Small Scale Closed-cup Apparatus	IMC	IBC	IFC
D3350— 14 <u>21</u>	Specification for Polyethylene Plastic Pipe and Fitting Materials	IRC®		
D3462/D3462M—2016	Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules	IBC		
D3462/D3462M— 16A <u>19</u>	Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules	IRC®		
D3468/D3468M—99(2013)E+ (2020)	Specification for Liquid-applied Neoprene and Chlorosulfonated Polyethylene Used in Roofing and Waterproofing	IBC	IRC®	

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D3498—03(2011) <u>19a</u>	Standard Specification for Adhesives for Field-Gluing Plywood to Lumber Framing for Floor Systems <u>Standard Specification for Adhesives for Field-Gluing Wood Structural Panels (Plywood or Oriented Strand Board) to Wood Based Floor System Framing</u>	IBC	
D3679—2017 <u>21</u>	Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding	IBC	IRC®
D3957—2009(2015) <u>(2020)</u>	Standard Practices for Establishing Stress Grades for Structural Members Used in Log Buildings	IBC	
D4434/D4434M—2015 <u>21</u>	Specification for Poly (Vinyl Chloride) Sheet Roofing	IBC	IRC®
D449/D449M—03(2014)E+ <u>2003(2021)</u>	Specification for Asphalt Used in Dampproofing and Waterproofing	IRC®	
D4601/D4601M—04(2012)e+ <u>(2020)</u>	Specification for Asphalt-coated Glass Fiber Base Sheet Used in Roofing	IBC	IRC®
D4829—11 <u>21</u>	Test Method for Expansion Index of Soils	IBC	IRC®
D4869/D4869M—2016A(2021)	Specification for Asphalt-saturated (Organic Felt) Underlayment Used in Steep Slope Roofing	IBC	IRC®
D4990—1997a(2013) <u>(2020)</u>	Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing	IRC®	
D4990—97a(2013)	Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing	IBC	
D5055—2016 <u>2019e1</u>	Specification for Establishing and Monitoring Structural Capacities of Prefabricated Wood I-joists	IBC	IRC®
D5456—2016 <u>21e1</u>	Specification for Evaluation of Structural Composite Lumber Products	IBC	IRC®

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D56—2016A	Test Method for Flash Point by Tag Closed Cup Tester	IMC	IBC
D56— 16a <u>21</u>	Test Method for Flash Point by Tag Closed Cup Tester	IFC	
D5726—98(2013) <u>(2020)</u>	Specification for Thermoplastic Fabrics Used in Hot-applied Roofing and Waterproofing	IBC	IRC®
D6083/D6083M— 2018 <u>21</u>	Specification for Liquid Applied Acrylic Coating Used in Roofing	IBC	IRC®
D6305—08(2015)E+ <u>21</u>	Practice for Calculating Bending Strength Design Adjustment Factors for Fire-retardant-treated Plywood Roof Sheathing	IRC®	
D635— 14 <u>18</u>	Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position	IBC	
D6841— 2016 <u>21</u>	Standard Practice for Calculating Design Value Treatment Adjustment Factors for Fire-retardant Treated Lumber	IBC	IRC®
D6878/D6878M— 2017 <u>19</u>	Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing	IBC	IRC®
D7147— 2011(2018) <u>21</u>	Specification for Testing and Establishing Allowable Loads of Joist Hangers	IBC	
D7158/D7158M— 2019 <u>20</u>	Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Force/Uplift Resistance Method)	IBC	IRC®
D7254— 2017 <u>20</u>	Standard Specification for Polypropylene (PP) Siding	IBC	IRC®
D7425/D7425M—13(2019)	Standard Specification for Spray Polyurethane Foam Used for Roofing Applications	IBC	IRC®
D7672— 14E+ <u>19</u>	Standard Specification for Evaluating Structural Capacities of Rim Board Products and Assemblies	IBC	IRC®

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D86— 2017 <u>20b</u>	Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure	IBC				
D93— 18 <u>20</u>	Test Method for Flash Point by Pensky-Martens Closed Cup Tester	IMC		IFC		
D93— 2018 <u>20</u>	Test Methods for Flash Point by Pensky-Martens Closed Cup Tester	IMC	IBC	IFC		
E1007— 16 <u>21</u>	Test Method for Field Measurement of Tapping Machine Impact Sound Transmission Through Floor-Ceiling Assemblies and Associated Support Structures	IBC				
E108— 17 <u>20a</u>	Standard Test Methods for Fire Tests of Roof Coverings	IWUIC	IEBC	IFC	IRC	
E108— 2017 <u>20a</u>	Standard Test Methods for Fire Tests of Roof Coverings	IWUIC	IBC	IRC®		
E119— 2018B <u>20</u>	Standard Test Methods for Fire Tests of Building Construction and Materials	IMC	IWUIC	IBC	IRC®	
E119— 2018B <u>20</u>	Standard Test Methods for Fire Tests of Building Construction and Materials	IWUIC				
E136—2019a	Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C	IFGC	IMC	IWUIC	IBC	IRC®
E136— 16A <u>19a</u>	Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C	IEBC				
E1677— 11 <u>19</u>	Specification for Air Barrier (AB) Material or Systems for Low-rise Framed Building Walls	IECC®				
E1886— 2013A <u>19</u>	Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials	IBC		IRC®		

E1918— 06(2016) <u>21</u>	Standard Test Method for Measuring Solar Reflectance of Horizontal or Low-sloped Surfaces in the Field	IECC®		
E1966—15(<u>2019</u>)	Standard Test Method for Fire-resistant Joint Systems	IFC	IBC	
E1980—11(<u>2019</u>)	Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-sloped Opaque Surfaces	IECC®		
E1996— 2017 <u>20</u>	Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes	IBC	IRC®	
E2174— 2018 <u>20a</u>	Standard Practice for On-site Inspection of Installed Fire Stops	IBC		
E2178— 43 <u>21a</u>	Standard Test Method for Air Permeance of Building Materials for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials	IBC	IRC	IECC®
E2178— 2013 <u>21a</u>	Standard Test Method for <u>Determining Air Leakage Rate and Calculation of Air</u> Permanence of Building Materials	IECC®	IRC®	
E2231— 2018 <u>19</u>	Standard Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics	IMC	IRC®	
E2307— 45BE+ <u>20</u>	Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using the Intermediate-scale, Multistory Test Apparatus	IBC		
E2336— 46 <u>20</u>	Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems	IMC		
E2353— 2016 <u>21</u>	Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards and Balustrades	IBC		

E2393— 10a(2015) <u>20a</u>	Standard Practice for On-site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers	IBC	
E2570/E2570M— 07(2014) E+ <u>(2019)</u>	Standard Test Methods for Evaluating Water-resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage	IRC®	
E2573— 47 <u>19</u>	Standard Practice for Specimen Preparation and Mounting of Site-fabricated Stretch Systems to Assess Surface Burning Characteristics	IFC	
E2579— 45 <u>21</u>	Standard Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics	IFC	IBC
E2652— 46 <u>18</u>	Standard Test Method for Behavior <u>Assessing</u> Combustibility <u>Combustibility</u> of Materials Using <u>in</u> a Tube Furnace with a Cone-shaped Airflow Stabilizer at 750°C	IBC	
E283/E283M— 04(2012) <u>19</u>	Standard Test Method for Determining Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences across the Specimen	IBC	
E2925— 47 <u>19a</u>	Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function	IBC	IRC®
E3082— 47 <u>20</u>	Standard Test Methods for Determining the Effectiveness of Fire-retardant Treatments for Natural Christmas Trees	IFC	

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E336— 17a <u>20</u>	Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings	IBC	
E408—13(2019)	Test Methods for Total Normal Emittance of Surfaces Using Inspection-meter Techniques	IECC®	
E605/E605M— 99(2015) <u>e+ 19</u>	Test Method for Thickness and Density of Sprayed Fire-resistive Material (SFRM) Applied to Structural Members	IBC	
E648— 17a <u>19ae1</u>	Standard Test Method for Critical Radiant Flux of Floor-covering Systems Using a Radiant Heat Energy Source	IFC	
E736/E736M— 2017 <u>19</u>	Test Method for Cohesion/Adhesion of Sprayed Fire-resistive Materials Applied to Structural Members	IBC	
E779—2010(2018)	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization	IECC®	IRC®
E779— 10(2018) <u>19</u>	Standard Test Method for Determining Air Leakage Rate by Fan Pressurization	IECC®	
E84— 18b <u>21a</u>	Standard Test Method for Surface Burning Characteristics of Building Materials	IFC	
E903— 2012 <u>20</u>	Standard Test Method Solar Absorptance, Reflectance and Transmittance of Materials Using Integrating Spheres (Withdrawn 2005)	IECC®	
E96/E96M—2016	Standard Test Methods for Water Vapor Transmission of Materials	IBC	IRC®
F1085— 14 <u>19</u>	Standard Specification for Mattress and Box Springs for Use in Berths in Marine Vessels	IFC	
F1361— 2017 <u>21</u>	Standard Test Method for Performance of Open Deep Fat <u>Val</u> Fryers	IECC®	

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F1476— 07(2013) <u>(2019)</u>	Specification for Performance of Gasketed Mechanical Couplings for Use in Piping Applications	IMC	IPC
F1488— 14E+ <u>14(2019)</u>	Specification for Coextruded Composite Pipe	IRC®	
F1495— 2014a <u>20</u>	Standard Specification for Combination Oven Electric or Gas Fired	IECC®	
F1496— 2013 <u>13(2019)</u>	Standard Test Method for Performance of Convection Ovens	IECC®	
F1504— 2014 <u>21</u>	Standard Specification for Folded Poly (Vinyl Chloride) (PVC) for Existing Sewer and Conduit Rehabilitation	IRC®	
F1554— 2018 <u>20</u>	Specification for Anchor Bolts, Steel, 36, 55 and 105-ksi Yield Strength	IRC®	
F1667— 2018 <u>21</u>	Specification for Driven Fasteners: Nails, Spikes and Staples	IBC	IRC®
F1696— 2018 <u>20</u>	Standard Test Method for Energy Performance of Stationary-Rack, Door-Type Commercial Dishwashing Machines	IECC®	
F1807— 2018 <u>19b</u>	Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring, <u>or Alternate Stainless Steel Clamps,</u> for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing	IPC	
F1871— 2011 <u>20</u>	Standard Specification for Folded/Formed Poly (Vinyl Chloride) Pipe Type A for Existing Sewer and Conduit Rehabilitation	IRC®	
F1920— 2015 <u>20</u>	Standard Test Method for Performance of Rack Conveyor Commercial Dishwashing Machines	IECC®	

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F1924— 42 <u>19</u>	Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing	IMC	IRC®		
F1960— 2018 <u>21</u>	<u>Standard Specification for Cold Expansion Fittings with PEX Reinforcing Rings for Use with Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing</u>	IPC			
F1970— 2018 <u>19</u>	Special Engineered Fittings, Appurtenances or Valves for Use in Poly (Vinyl Chloride) (PVC) OR Chlorinated Poly (Vinyl Chloride) (CPVC) Systems	IPC			
F1974— 09(2015) <u>(2020)</u>	Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene Composite Pressure Pipe	IPC	IRC®		
F2006— 17 <u>21</u>	Standard/Safety Specification for Window Fall Prevention Devices for Nonemergency Escape (Egress) and Rescue (Ingress) Windows	IBC	IEBC	IFC	
F2080— 2016 <u>2019</u>	Specifications for Cold-expansion Fittings with Metal Compression-sleeves for Cross-linked Polyethylene (PEX) Pipe <u>Standard Specification for Cold-Expansion Fittings with Metal Compression-Sleeves for Crosslinked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Pipe</u>	IMC	IPC	IRC	
F2090— 17 <u>21</u>	Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms	IBC	IEBC	IFC	IRC®
F2098— 2015 <u>2018</u>	Standard Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing <u>and SDR9 Polyethylene of Raised Temperature (PE-RT) to Metal Insert and Plastic Fittings</u>	IPC			

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F2098— 2015 <u>2018</u>	Standard Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing and <u>SDR9 Polyethylene of Raised Temperature (PE-RT)</u> to Metal Insert and Plastic Insert Fittings	IMC	IRC®	
F2144— 2017 <u>21</u>	Standard Test Method for Performance of Large Open Vat Fryers	IECC®		
F2159— 2018 <u>21</u>	<u>Standard</u> Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring, <u>or Alternate Stainless Steel Clamps</u> for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing	IPC		
F2159— 2018 <u>21</u>	Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring or <u>Alternate Stainless Steel Clamps</u> for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing	IMC	IRC®	
F2200— 17 <u>20</u>	Standard Specification for Automated Vehicular Gate Construction	IFC		
F2306/F2306M— 2018 <u>20</u>	12" to 60" Annular Corrugated Profile-wall Polyethylene (PE) Pipe and Fittings for Gravity Flow Storm Sewer and Subsurface Drainage Applications	IPC		
F2389— 2017A <u>21</u>	<u>Standard</u> Specification for Pressure-rated Polypropylene (PP) Piping Systems	IPC		
F2389—2017A	Specification for Pressure-rated Polypropylene Piping Systems	IMC	IRC®	
F2434— 14 <u>19</u>	Standard Specification for Metal Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing	IMC	IPC	IRC®

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F2561— 47 <u>20</u>	Standard Practice for Rehabilitation of a Sewer Service Lateral and its Connection to the Main Using a One Piece Main and Lateral Cured-in-Place Liner	IPC		
F2599— 46 <u>20</u>	Standard Practice for The Sectional Repair of Damaged Pipe by Means of an Inverted Cured-in-Place Liner	IPC		
F2623— 44 <u>19</u>	Standard Specification for Polyethylene of Raised Temperature (PE-RT) <u>Systems for Non-Potable Water Applications SDR9 Tubing</u>	IMC	IRC®	
F2648/F2648M— 2017 <u>20</u>	Standard Specification for 2 to 60 inch [50 to 1500 mm] Annular Corrugated Profile Wall Polyethylene (PE) Pipe and Fittings for Land Drainage Applications	IPC		
F2735— 2009 (2016) <u>21</u>	Standard Specification for Plastic Insert Fittings for SDR9 Cross-linked Polyethylene (PEX) and Polyethylene of Raised Temperature (PE-RT) Tubing	IPC		
F2764/F2764M— 2010 <u>19</u>	Standard Specification for 30 to 60 in. [750 to 1500 mm] Polypropylene (PP) Triple Wall Pipe and Fittings for Non-pressure Sanitary Sewer Applications. Standard Specification for 6 to 60 in. [150 to 1500 mm] Polypropylene (PP) Corrugated Double and Triple Wall Pipe and Fittings for Non-Pressure Sanitary Sewer Applications	IPC		
F2769— 2018	<u>Standard Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot- and Cold-water Tubing and Distribution Systems</u>	IMC	IPC	IRC
F2806— 40 (2015) <u>20</u>	Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe (Metric SDR-PR)	IMC	IRC®	

F2831— 2012 (2017) <u>19</u>	Standard Practice for Internal Non Structural Epoxy Barrier Coating Material Used in Rehabilitation of Metallic Pressurized Piping Systems	IPC			
F2855— 12 <u>19</u>	Standard Specification for Chlorinated Poly(Vinyl Chloride)/Aluminum/Chlorinated Poly(Vinyl Chloride) (CPVC-AL-CPVC) Composite Pressure Tubing	IMC	IPC	IRC®	
F2861— 2017 <u>20</u>	Standard Test Method for Enhanced Performance of Combination Oven in Various Modes	IECC®			
F2881 /F2881M— 2018 <u>21</u>	Standard Specification for 12 to 60 in. [300 to 1500 mm] Polypropylene (PP) Dual Wall Pipe and Fittings for Non-pressure Storm Sewer Applications	IPC			
F2969—12(2020)	Standard Specification for Acrylonitrile-butadiene-styrene (ABS) IPS Dimensioned Pressure Pipe	IRC®			
F3226/F3226M— 16 <u>19</u>	Standard Specification for Metallic Press-Connect Fittings for Piping and Tubing Systems	IPC	IRC®		
F3240— 17 <u>19e1</u>	Standard Practice for Installation of Seamless Molded Hydrophilic Gaskets (SMHG) for Long Term Watertightness of Cured-in-Place Rehabilitation of Main and Lateral Pipelines	IPC			
F3253— 2017 <u>19</u>	Standard Specification for Crosslinked Polyethylene (PEX) Tubing with Oxygen Barrier for Hot- and Cold-water Hydronic Distribution Systems	IMC	IRC®		
F437— 15 <u>21</u>	Specification for Threaded Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80	IMC	IPC	ISPSC	IRC®

F439— 43 <u>19</u>	Specification for Socket Type Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe Fittings, Schedule 80	IMC	IPC	ISPSC	IRC®
F441/F441M— 45 <u>20</u>	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80	IMC	IPC	IRC®	
F442/F442M— 43E+ <u>20</u>	Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDR-PR)	IRC®			
F477—14(<u>2021</u>)	Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe	IPC		IRC®	
F493— 44 <u>20</u>	Specification for Solvent Cements for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe and Fittings	IMC	IPC	IRC®	
F656— 2015 <u>21</u>	Specification for Primers for Use in Solvent Cement Joints of Poly (Vinyl Chloride) (PVC) Plastic Pipe and Fittings	IPC			
F667 /F667M — 2016 (<u>2021</u>)	Standard Specification for 3 through 24 in. Corrugated Polyethylene Pipe and Fittings	IPC			
F714— 49 <u>21a</u>	Standard Specification for Polyethylene (PE) Plastic Pipe (SDR-PR) Based on Outside Diameter	IMC		IRC®	
F844— 07a(2013) <u>19</u>	Standard Specification for Washers, Steel, Plain (Flat), Unhardened for General Use	IRC®			
F876— 2017 <u>20b</u>	Specification for Cross-linked Polyethylene (PEX) Tubing	IPC			
F876—2018A	Specification for Cross-linked Polyethylene (PEX) Tubing	IMC			
F877— 2018A <u>20</u>	Specification for Cross-linked Polyethylene (PEX) Hot- and Cold-water Distribution Systems	IPC			

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G152—13(2021)	Practice for Operating Open Flame Carbon Arc Light Apparatus for Exposure of Nonmetallic Materials	IBC	
G154—2016A	<u>Standard Practice for Operating Fluorescent Ultraviolet (UV) Light Lamp Apparatus for UV-Exposure of Nonmetallic Materials</u>	IBC	
G155—13_21	<u>Standard Practice for Operating Xenon Arc Light Lamp Apparatus for Exposure of Nonmetallic Materials</u>	IBC	
AWC		American Wood Council	
Standard Reference Number	Title	Referenced in Code(s):	
ANSI/AWC NDS—2018_2024	National Design Specification (NDS) for Wood Construction— with 2018 NDS Supplement	IBC	IRC®
ANSI/AWC WFCM—2018_2024	Wood Frame Construction Manual for One- and Two-Family Dwellings	IBC	IRC®
AWC STJR—2021_2024	Span Tables for Joists and Rafters	IBC	IRC®
AWPA		American Wood Protection Association	
Standard Reference Number	Title	Referenced in Code(s):	
M4—15_21	Standard for the <u>Handling, Storage, Field Fabrication, and Field Treatment of</u> Gare of Preservative-treated Wood Products	IBC	IRC®
U1—20_23	USE CATEGORY SYSTEM: User Specification for Treated Wood Except Commodity Specification H	IBC	IRC®
AWS		American Welding Society	
Standard Reference Number	Title	Referenced in Code(s):	
A5.8/A5.8—2011-AMD+ :2019	Specifications for Filler Metals for Brazing and Braze Welding	IMC	

A5.8M/A5.8—2011—AMD+ :2019	Specifications for Filler Metals for Brazing and Braze Welding	IPC		
A5.8M/A5.8—2011—AMD+ :2019	Specifications for Filler Metals for Brazing and Braze Welding	IRC®		
D1.4/D1.4M—2018—AMD1	Structural Welding Code—Steel Reinforcing Bars	IBC		
AWWA		American Water Work Association		
Standard Reference Number	Title	Referenced in Code(s):		
C110/A21.10—42 <u>21</u>	Standard for Ductile Iron & Gray Iron Fittings	IMC	IPC	IRC®
C115/A21.15—44 <u>20</u>	Standard for Flanged Ductile-iron Pipe with Ductile Iron or Grey-iron Threaded Flanges	IMC	IPC	IRC®
C153/A21.53—44 <u>19</u>	Ductile-iron Compact Fittings for Water Service	IMC	IRC®	
C500—09 <u>19</u>	Standard for Metal-seated Gate Valves for Water Supply Service	IPC	IRC®	
C507—45 <u>18</u>	Standard for Ball Valves, 6 In. Through 60 in. (150 mm through 1,500 mm).	IPC	IRC®	
C510—07 <u>17</u>	Double Check Valve Backflow Prevention Assembly	IRC®		
C652—44 <u>19</u>	Disinfection of Water-storage Facilities	IPC		
C901—46 <u>20</u>	Polyethylene (PE) Pressure Pipe and Tubing, 3/4 in. (19 mm) through 3 in. (76 mm) for Water Service	IMC	IPC	IRC®
C903—46 <u>21</u>	Polyethylene-aluminum-polyethylene (PE-AL-PE) Composite Pressure Pipe, 12 mm (1/2 in.) through 50 mm (2 in.), for Water Service	IRC®		
CGA		Compressed Gas Association		
Standard Reference Number	Title	Referenced in Code(s):		

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ANSI/CGA P-18— (2013) <u>(2018)</u>	Standard for Bulk Inert Gas Systems	IFC		
C-7— (2014) <u>(2020)</u>	Guide to Classification and Labeling of Compressed Gases	IFC		
S-1.1— (2014) <u>(2019)</u>	Pressure Relief Device Standards—Part 1—Cylinders for Compressed Gases	IFGC	IFC	
S-1.2— (2009) <u>2019</u>	Pressure Relief Device Standards—Part 2—Cargo and Portable Tanks for Compressed Gases	IFGC	IFC	
S-1.3— (2009) <u>(2020)</u>	Pressure Relief Device Standards—Part 3—Stationary Storage Containers for Compressed Gases	IFGC	IFC	
V-1— (2013) <u>(2021)</u>	Standard for Gas Cylinder Valve Outlet and Inlet Connections	IFC		
CISPI	Cast Iron Soil Pipe Institute			
Standard Reference Number	Title	Referenced in Code(s):		
301— 18 <u>21</u>	<u>Standard Specification for Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications</u>	IPC	IPSDC	IRC®
310— 18 <u>20</u>	<u>Standard Specification for Coupling for Use in Connection with Hubless Cast-iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste and Vent Piping Applications</u>	IPC	IPSDC	IRC®
CPA	Composite Panel Association			
Standard Reference Number	Title	Referenced in Code(s):		
ANSI A135.4—2012 <u>(R2020)</u>	Basic Hardboard	IBC	IRC®	
ANSI A135.5—2012 <u>(R2020)</u>	Prefinished Hardboard Paneling	IBC	IRC®	
ANSI A135.6— 2012 <u>(R2020)</u>	Engineered Wood Siding	IBC	IRC®	

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ANSI A135.7—2012 (R2020)	Engineered Wood Trim	IRC®		
CRRC		Cool Roof Rating Council		
Standard Reference Number	Title	Referenced in Code(s):		
ANSI/CRRC-S100— 2020 2021	Standard Test Methods for Determining Radiative Properties of Materials	IECC®		
CSA		Canadian Standards Association		
Standard Reference Number	Title	Referenced in Code(s):		
ANSI/CSA FC 1—2014 CSA/ANSI FC 1:21/CSA C22.2 NO. 62282-2-100:21	Fuel Cell Technologies—Part 3-100; Stationary fuel cell power systems—Safety	IFGC	IMC	IRC®
ANSI/CSA FC 1—2014 CSA/ANSI FC 1:21/CSA C22.2 NO. 62282-3-100:21	Fuel Cell Technologies—Part 3-100; Stationary fuel cell power systems-Safety	IFGC	IMC	
ANSI/CSA CSA/ANSI NGV 5.1— 2016 22	Residential Fueling Appliances	IFGC		
CSA/ANSI C22.2 No. 60335-2-40 —2012 19	Safety of Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers	IMC	ISPSC	IRC®
A257.1—14 19	Non-reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings	IPC		
A257.2—14 19	Reinforced Circular Concrete Culvert, Storm Drain, Sewer Pipe and Fittings	IPC	IPSDC	IRC®
A257.3—14 19	Joints for Circular Concrete Sewer and Culvert Pipe, Manhole Sections and Fittings Using Rubber Gaskets	IPC	IPSDC	IRC®
AAMA/WDMA/CSA 101/I.S.2/A440—17 22	North American Fenestration Standard/Specifications for Windows, Doors and Unit Skylights	IBC	IECC®	IRC®
ANSI Z21.69-2015 (R2020)/CSA 6.16— 2015 (R2020)	Connectors for Movable Gas Appliances	IFC	IRC	

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ANSI Z83.26/CSA 2.37—2014	Gas-fired Outdoor Infrared Patio Heaters	IFC	
ANSI/CSA/IGSHPA C448 Series—16 (R2021)	Design and Installation of Ground Source Heat Pump Systems for Commercial and Residential Buildings	IMC	IRC®
ASME A112.18.1— 2018 <u>2022/CSA B125.1—18 :22</u>	Plumbing Supply Fittings	IPC	
ASME A112.18.1— 2018 <u>2023/CSA B125.1—2018 :23</u>	Plumbing Supply Fittings	IRC®	
ASME A112.18.2—2019/CSA B125.2— 2019 <u>2023</u>	Plumbing Waste Fittings	IRC®	
ASME A112.18.2— 2015 <u>2023/CSA B125.2—2015 :2023</u>	Plumbing Waste Fittings	IPC	
ASME A112.18.6— 2017 /CSA B125.6— <u>17(R2022)</u>	Flexible Water Connectors	IPC	
ASME A112.19.1— 2018 <u>2023/CSA B45.2—18 :23</u>	Enameled Cast-iron and Enameled Steel Plumbing Fixtures	IRC®	
ASME A112.19.1— 2020 <u>2023/CSA B45.2—20 :23</u>	Enameled Cast-iron and Enameled Steel Plumbing Fixtures	IPC	
ASME A112.19.2— 2018 <u>2023/CSA B45.1—18 :23</u>	Ceramic Plumbing Fixtures	IRC®	
ASME A112.19.2— 2020 <u>:23/B45.1—2020 :23</u>	Ceramic Plumbing Fixtures	IPC	
ASME A112.19.3— 2017 <u>2022/CSA B45.4—2017 :22</u>	Stainless Steel Plumbing Fixtures	IRC®	
ASME A112.19.3— 2021 <u>2022/CSA B45.4—2021 :22</u>	Stainless Steel Plumbing Fixtures	IPC	
ASME A112.19.5— 2021 <u>:22/CSA B45.15—21 :22</u>	Flush Valves and Spuds for Water Closets, Urinals and Tanks	IPC	
ASME A112.19.7— 2020 /CSA B45.10 : 2012 <u>2012 (R2021)</u>	Hydromassage Bathtub Systems	IPC	

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ASME A112.3.4— 2019 <u>2018/CSA B45.9—18 (R2023)</u>	Macerating Toilet Systems and Related Components	IRC®		
ASME A112.3.4— 2018/CSA <u>B45.9— 2018 18 (R2023)</u>	Macerating Toilet Systems and Waste Pumping Systems for Plumbing Fixtures	IPC		
ASME A112.4.2— 2020 <u>2021/CSA B45.16—20 21</u>	Personal Hygiene Devices <u>for</u> Water Closet <u>s</u>	IPC		
ASME A112.4.2— 2015 <u>2021/CSA B45.16—15 21</u>	Personal Hygiene Devices <u>for</u> Water-closet <u>s</u>	IRC®		
ASME A17.1/CSA B44— 2019 <u>2022</u>	Safety Code for Elevators and Escalators	IRC®		
ASME A17.1— 2019 <u>2023/CSA</u> <u>B44— 23</u>	Safety Code for Elevators and Escalators	IBC		
ASME A17.7—2007/CSA B44.7 —07(R2017) <u>07(R2021)</u>	Performance-based Safety Code for Elevators and Escalators	IBC		
ASSE 1002—2020/ASME A112.1002—2020/CSA B125.12 —2020	Anti-Siphon Fill Valves for Water Closet Tanks	IPC		
ASSE 1016—2017/ASME 112.1016—2017/CSA B125.16 —2017 <u>(R2022)</u>	Performance Requirements for Automatic Compensating Valves for Individual Showers and Tub/Shower Combinations	IPC	IRC®	
ASSE 1037— 2015 <u>2020/ASME</u> A112.1037— 2015 <u>2020/CSA</u> B125.37— 15 <u>:20</u>	<u>Performance requirements for</u> Pressurized Flushing Devices for Plumbing Fixtures	IPC		
ASSE 1070—2020/ASME A112.1070—2020/CSA B125.4070— 20	<u>Performance requirements for</u> Water Temperature Limiting Devices	IPC		
ASSE 1070— 2015 <u>2020/ASME</u> A112.1070— 2015 <u>2020/CSA</u> B125.70— 15 <u>:20</u>	Performance Requirements for Water-temperature-limiting Devices	IRC®		
B125.3— 18 <u>:23</u>	Plumbing Fittings	IPC	IRC®	
B137.10— 17 <u>:23</u>	Cross-linked Polyethylene/Aluminum/Cross- linked Polyethylene (PEX-AL- PEX) Composite Pressure-pipe Systems	IMC	IPC	IRC®

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B137.11—47 :23	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	IMC	IPC	IRC®		
B137.18—47 :23	Polyethylene of Raised Temperature Resistance (PE-RT) Tubing Systems for Pressure Applications	IMC	IPC	IRC®		
B137.1—47 :23	Polyethylene (PE) Pipe, Tubing and Fittings for Cold-water Pressure Services	IMC	IPC	IRC®		
B137.2—47 :23	Polyvinylchloride (PVC) Injection-moulded Gasketed Fittings for Pressure Applications	IMC	IPC	ISPSC	IRC®	
B137.3—47 :23	Rigid Poly (Vinyl Chloride) polyvinylchloride (PVC) Pipe and Fittings for Pressure Applications	IMC	IPC	IPSDC	ISPSC	IRC®
B137.5—47 :23	Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications	IMC	IPC	IRC®		
B137.6—47 :23	Chlorinated Polyvinylchloride (CPVC) Pipe, Tubing and Fittings for Hot- and Cold-water Distribution Systems	IMC	IPC	ISPSC	IRC®	
B137.9—47 :23	Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure-pipe Systems	IMC	IPC	IRC®		
B181.1—48 :21	Acrylonitrile-Butadiene-Styrene ABS Drain, Waste and Vent Pipe and Pipe Fittings	IPC	IPSDC	IRC®		
B181.2—48 :21	Polyvinylchloride PVC and Chlorinated Polyvinylchloride (CPVC) Drain, Waste, and Vent Pipe and Pipe Fittings	IPC	IPSDC	IRC®		
B181.3—48 :21	Polyolefin and Polyvinylidene Fluoride (PVDF) Laboratory Drainage Systems	IPC			IRC®	
B182.13—48 :21	Profile Polypropylene (PP) Sewer Pipe and Fittings for Leak-proof Sewer Applications	IPC				
B182.1—48 :21	Plastic Drain and Sewer Pipe and Pipe Fittings	IPC	IPSDC	IRC®		

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B182.2— 18 <u>.21</u>	PSM Type Polyvinylchloride PVC Sewer Pipe and Fittings	IPC	IPSDC	IRC®
B182.4— 18 <u>.21</u>	Profile Polyvinylchloride PVC Sewer Pipe and Fittings	IPC	IPSDC	IRC®
B182.6— 18 <u>.21</u>	Profile Polyethylene (PE) Sewer Pipe and Fittings for Leak-proof Sewer Applications	IPC		IRC®
B182.8— 18 <u>.21</u>	Profile Polyethylene (PE) Storm Sewer and Drainage Pipe and Fittings	IPC		IRC®
B481.1—12(R2017)	Testing and Rating of Grease Interceptors Using Lard	IPC		
B481.3—12(R2017)	Sizing, Selection, Location and Installation of Grease Interceptors	IPC		
B483.1— 07(R2017) <u>.22</u>	Drinking Water Treatment Systems	IPC		IRC®
B55.1— 2015 <u>.20</u>	Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units	IECC®		IRC®
B55.2— 2015 <u>.20</u>	Drain Water Heat Recovery Units	IRC®		
B602— 16 <u>.20</u>	Mechanical Couplings for Drain, Waste and Vent Pipe and Sewer Pipe	IPC	IPSDC	IRC®
B64.1.1— 11(R2016) <u>.21</u>	Atmospheric Type Vacuum Breakers, (AVB)	IPC		IRC®
B64.1.2— 11(R2016) <u>.21</u>	Pressure Vacuum Breakers, (PVB)	IPC		IRC®
B64.1.3— 11(R2016) <u>.21</u>	Spill-Resistant Pressure Vacuum Breakers (SRPVB)	IPC		IRC®
B64.10—17	Manual for the Selection and Installation of Backflow Prevention Devices <u>Preventers</u>	IPC		
B64.2.1.1— 11(R2016) <u>.21</u>	Hose Connection Dual Check Vacuum Breakers (HCDVB)	IPC		IRC®

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B64.2.1— 11(2016) :21	Hose Connection Vacuum Breakers, (HCVB) with Manual Draining Feature	IPC	
B64.2.1— 11(R2016) :21	Hose Connection Vacuum Breakers (HCVB) with Manual Draining Feature	IRC®	
B64.2.2— 11(2016) :21	Hose Connection Vacuum Breakers, Type (HCVB) with Automatic Draining Feature	IPC	IRC®
B64.2— 11(R2016) :21	Hose Connection Vacuum Breakers, Type (HCVB)	IPC	IRC®
B64.3— 11(2016) :21	Dual Check Valve Backflow Preventers with Atmospheric Port (DCAP)	IRC®	
B64.3— 11(R2016) :21	Backflow Preventers, Dual Check Valve Type with Atmospheric Port (DCAP)	IPC	
B64.4.1— 11(2016) :21	Reduced Pressure Principle backflow preventers for Fire Sprinklers (RPF) <u>protection systems (RPF)</u>	IPC	IRC®
B64.4.1— 11(R2016) :21	Reduced Pressure Principle for Fire Sprinklers (RPF)	IPC	
B64.4— 11(2016) :21	Reduced Pressure Principle Type (RP) Backflow Preventers;	IRC®	
B64.4— 11(R2016) :21	Backflow Preventers, Reduced Pressure Principle Type (RP)	IPC	
B64.5.1— 11(R2016) :21	Double Check Valve Backflow Preventers for Fire <u>Protection</u> Systems (DCVAF)	IPC	
B64.5.1— 11(2016) :21	Double Check Valve Backflow Preventers, Type for Fire Systems (DCVAF)	IRC®	
B64.5— 11(R2016) :21	Double Check Valve Backflow Preventers (DCVA)	IPC	
B64.5— 11(2016) :21	Double Check <u>Valve</u> Backflow Preventers (DCVA)	IRC®	

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B64.6— 11(R2016) :21	Dual Check Valve Backflow Preventers (DuC)	IRC®		
B64.6— 11(R2016) :21	Dual Check Valve (DuC) Backflow Preventers	IPC		
B64.7— 11(R2016) :21	Laboratory Faucet Vacuum Breakers (LFVB)	IRC®		
B64.7— 11(R2016) :21	Laboratory Faucet Vacuum Breakers (LFVB)	IPC		
B79—08(R2018)	Commercial and Residential Drains and Cleanouts	IPC		
C22.2 No. 108—14(R2019)	Liquid Pumps	ISPSC		
C22.2 No. 236—15	Heating and Cooling Equipment	IMC	ISPSC	IRC®
CSA B45.5— 17 :22/IAPMO Z124— 2017 with errata dated August 2017 :2022	Plastic Plumbing Fixtures	IPC		
CSA B45.5— 2017 :22/IAPMO Z124— 2017 with Errata dated August 2017 :2022	Plastic Plumbing Fixtures	IRC®		
CSA B55.1— 2015 :20	Test Method for Measuring Efficiency and Pressure Loss of Drain Water Heat Recovery Units	IECC®		
CSA B55.2— 2015 :20	Drain Water Heat Recovery Units	IECC®	IRC®	
CSA B805- 18 :17/ICC 805-2018 (R2023)	Rainwater Harvesting Systems	IPC		
CSA O325— 16 :21	Construction Sheathing	IRC®		
CSA/ANSI NGV 2— 2016 :19	Compressed Natural Gas Vehicle Fuel Containers	IFC		
CSA/ANSI NGV 5.1— 2016 :22	Residential Fueling Appliances	IFC		
CSA/ANSI NGV 5.2— 2017 :22	Vehicle Fueling Appliances (VFA)	IFGC	IFC	
Z21.56a/CSA 4.7—2017	Gas Fired Pool Heaters	ISPSC		

CTI		Cooling Technology Institute	
Standard Reference Number	Title	Referenced in Code(s):	
ATC 105DS— 2018 <u>2019</u>	Acceptance Test Code for Dry Fluid Coolers	IECC®	
ATC 105S— 14 <u>2021</u>	Acceptance Test Code for Closed Circuit Cooling Towers	IECC®	
CTI STD 201 RS(47) <u>2021</u>	Performance Rating of Evaporative Heat Rejection Equipment	IECC®	
DASMA		Door & Access Systems Manufacturers Association International	
Standard Reference Number	Title	Referenced in Code(s):	
<u>ANSI/DASMA 105—2017</u> <u>2020</u>	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors and Rolling Doors	IECC®	IRC®
ANSI/DASMA 107— 2017 <u>2020</u>	Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation	IBC	
DHA		Decorative Hardwoods Association	
Standard Reference Number	Title	Referenced in Code(s):	
ANSI/HPVA HP-1— 2016 <u>2022</u>	American National Standard for Hardwood and Decorative Plywood	IBC	IRC®
DOC		U.S. Department of Commerce	
Standard Reference Number	Title	Referenced in Code(s):	
PS 1— 49 <u>22</u>	Structural Plywood	IBC	IRC®
PS 20— 05 <u>20</u>	American Softwood Lumber Standard	IBC	IRC®
PS 2—18	Performance Standard for Wood-based Structural-Use Panels	IBC	IRC®
FEMA		Federal Emergency Management Agency	

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Standard Reference Number	Title	Referenced in Code(s):	
FEMA TB-11—04 <u>23</u>	Crawlspace Construction for Buildings Located in Special Flood Hazard Area	IRC®	
FEMA TB-2—08 <u>23</u>	Flood Damage-resistant Materials Requirements	IRC®	
FEMA-TB-11—04 <u>23</u>	Crawlspace Construction for Buildings Located in Special Flood Hazard Areas	IBC	
FGIA		Fenestration & Glazing Alliance (formerly AAMA)	
Standard Reference Number	Title	Referenced in Code(s):	
711—20 <u>23</u>	Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products	IBC	IRC®
712—14 <u>23</u>	Voluntary Specification for Mechanically Attached Flexible Flashing	IRC®	
714—20 <u>23</u>	Voluntary Specification for Liquid Applied Flashing Used to Create a Water-resistive Seal around Exterior Wall Openings in Buildings	IBC	IRC®
AAMA/NSA 2100—20 <u>22</u>	Specifications for Sunrooms	IRC®	
AAMA/WDMA/CSA 101/I.S.2/A 6440—17 <u>22</u>	North American Fenestration Standard/Specifications for Windows, Doors and Unit Skylights	IECC®	
FM		FM Approvals	
Standard Reference Number	Title	Referenced in Code(s):	
4474—2014 <u>2020</u>	American National Standard for Evaluating the Simulated Wind Uplift Resistance of Roof Assemblies Using Static Positive and/or Negative Differential Pressures	IBC	IRC®
GA		Gypsum Association	

Standard Reference Number	Title	Referenced in Code(s):
GA 216— 2018 <u>2021</u>	Application and Finishing of Gypsum Panel Products	IBC
GA 600— 2018 <u>2021</u>	Fire-resistance and Sound Control Design Manual, 22nd <u>23rd</u> Edition	IBC
GA-253— 2018 <u>2021</u>	Application of Gypsum Sheathing	IRC®
IAPMO		
IAPMO Group		
Standard Reference Number	Title	Referenced in Code(s):
<u>ANSI/CAN/IAPMO Z1001—2016</u> <u>2021</u>	Prefabricated Gravity Grease Interceptors	IPC
ASPE/IAPMO Z1034-2015(R2020)	Test Method for Evaluating Roof Drain Performance	IPC
CSA B45.5—47 :22 /IAPMO Z124— 2017 <u>2022</u> with errata dated August 2017	Plastic Plumbing Fixtures	IPC
IAPMO Z124.7—2013(R2018)	Prefabricated Plastic Spa Shells	ISPSC
IAPMO/ANSI Z1157—2014e1(R2019)	Ball Valves	IPC
IES		
Illuminating Engineering Society		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/ASHRAE/IESNA 90.1— 2018 <u>2022</u>	Energy Standard for Buildings, Except Low-rise Residential Buildings	IECC®
IIAR		
International Institute of Ammonia Refrigeration		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/IIAR 2—2014, including Addendum A <u>2021</u>	Design of Safe Closed-circuit Ammonia Refrigeration Systems	IFC

ANSI/IIAR 9— 2018 <u>2020</u>	Standard for Recognized and Generally Accepted Good Engineering Practices (RAGAGEP) for Existing Closed-circuit Ammonia Refrigeration Systems <u>Minimum System Safety Requirements for Existing Closed-Circuit Ammonia Refrigeration Systems</u>	IFC
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IKECA International Kitchen Exhaust Cleaning Association		
Standard Reference Number	Title	Referenced in Code(s):

ANSI/IKECA C10— 2016 <u>2021</u>	Standard for the Methodology for Cleaning of Commercial Kitchen Exhaust Systems	IFC
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MHI Material Handling Institute		
Standard Reference Number	Title	Referenced in Code(s):

ANSI MH29.1— 08 <u>2020</u>	Safety Requirements for Industrial Scissors Lifts	IBC
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ANSI/MH16.1— 12 <u>2021</u>	Design, Testing and Utilization of Industrial Steel Storage Racks	IBC
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MSS Manufacturers Standardization Society of the Valve and Fittings Industry			
Standard Reference Number	Title	Referenced in Code(s):	

ANSI SP 58— 2010 <u>2023</u>	Pipe Hangers and Supports—Materials, Design and Manufacture, <u>Selection, Application and Installation</u>	IFGC	IMC	IRC®
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SP-110— 2010 <u>2023</u>	Ball Valves, Threaded, Socket Welding, Solder Joint, Grooved and Flared Ends (incl. a 2010 Errata Sheet)	IPC	IRC®
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SP-122— 2017 <u>2023</u>	Plastic Industrial Ball Valves	IPC	IRC®
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SP-139— 2014 <u>2022</u>	Copper Alloy Gate, Globe, Angle and Check Valves for Low Pressure/Low Temperature Plumbing Applications	IPC	IRC®
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SP-42— 2013 <u>2022</u>	Corrosion Resistant Gate, Globe, Angle and Check Valves with Flanged and Butt Weld Ends (Glasses 150, 300 & 600)	IRC®	
SP-67— 2011 <u>2022</u>	Butterfly Valves	IPC	IRC
SP-70— 2011 <u>2023</u>	Gray Iron Gate Valves, Flanged and Threaded Ends	IPC	IRC®
SP-70— 2013 <u>2023</u>	Gray Iron Gate Valves, Flanged and Threaded Ends	IPC	
SP-72— 2010a <u>2023</u>	Ball Valves with Flanged or Butt-welding Ends for General Service	IPC	IRC®
SP-78— 2011 <u>2023</u>	Cast Iron Plug Valves, Flanged and Threaded Ends	IPC	
SP-78— 2011 <u>2023</u>	Cast Iron Plug Valves, Flanged and Threaded Ends	IRC®	
SP-80— 2013 <u>2019</u>	Bronze Gate, Globe, Angle and Check Valves	IPC	IRC®
NBBI		National Board of Boiler and Pressure Vessel Inspectors	
Standard Reference Number	Title	Referenced in Code(s):	
NBIC— 2017 <u>2023</u>	National Board Inspection Code, Part 3 (<u>ANSI/NB23</u>)	IMC	
NCMA		National Concrete Masonry Association	
Standard Reference Number	Title	Referenced in Code(s):	
TEK 5— 84 <u>B(2005)</u>	Details <u>Detailing for Concrete Masonry Fire Walls</u>	IBC	
NEMA		National Electrical Manufacturers Association	
Standard Reference Number	Title	Referenced in Code(s):	
250— 2018 <u>2020</u>	Enclosures for Electrical Equipment (1,000 Volt Maximum)	IFC	
NEMA <u>ANSI Z535_1</u> —2017	<u>ANSI/NEMA Color Chart</u> <u>American National Standard for Safety Colors</u>	ISPSC	

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NEMA MG1—2016	Motors and Generators	IECC®			
NFPA	National Fire Protection Association				
Standard Reference Number	Title	Referenced in Code(s):			
02—19 <u>23</u>	Hydrogen Technologies Code	IFC			
04—21 <u>24</u>	Standard for Integrated Fire Protection and Life Safety System Testing	IBC		IFC	
105—19 <u>22</u>	Standard for Smoke Door Assemblies and Other Opening Protectives	IMC	IPMC	IBC	IFC
10—21 <u>22</u>	Standard for Portable Fire Extinguishers	IPMC	IBC	IFC	
110—19 <u>22</u>	Standard for Emergency and Standby Power Systems	IBC		IFC	
111—19 <u>22</u>	Standard on Stored Electrical Energy Emergency and Standby Power Systems	IBC		IFC	
1123—19 <u>22</u>	Code for Fireworks Display	IFC			
1124—06 <u>22</u>	Code for the Manufacture, Transportation, Storage and Retail Sales of Fireworks and Pyrotechnic Articles	IFC			
1124—17 <u>22</u>	Code for the Manufacture, Transportation and Storage of Fireworks and Pyrotechnic Articles	IBC		IFC	
1125—17 <u>22</u>	Code for the Manufacture of Model Rocket and High-power Rocket Motors	IFC			
1142—17 <u>22</u>	Standard on Water Supplies for Suburban and Rural Fire Fighting	IFC			
11—16 <u>21</u>	Standard for Low-, Medium, and High Expansion Foam	IBC		IFC	
12A—19 <u>22</u>	Standard on Halon 1301 Fire Extinguishing Systems	IPMC	IBC	IFC	

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12— 45 <u>22</u>	Standard on Carbon Dioxide Extinguishing Systems	IBC			
12— 48 <u>22</u>	Standard on Carbon Dioxide Extinguishing Systems	IPMC		IFC	
13D— 49 <u>22</u>	Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes	IBC	IFC		IRC®
13R— 49 <u>22</u>	Standard for the Installation of Sprinkler Systems in Low-rise Residential Occupancies	IBC	IFC		IRC®
13— 49 <u>22</u>	Standard for Installation of Sprinkler Systems, <u>2022 and 2019 editions</u>	IBC		IFC	
14— 49 <u>22</u>	Standard for the Installation of Standpipe and Hose System	IBC		IFC	
15— 47 <u>22</u>	Standard for Water Spray Fixed Systems for Fire Protection	IFC			
170— 48 <u>21</u>	Standard for Fire Safety and Emergency Symbols	IBC		IFC	
2001— 48 <u>22</u>	Standard on Clean Agent Fire Extinguishing Systems	IPMC	IBC		IFC
204— 48 <u>21</u>	Standard for Smoke and Heat Venting	IPMC		IFC	
20— 49 <u>22</u>	Standard for the Installation of Stationary Pumps for Fire Protection	IBC		IFC	
211— 49 <u>22</u>	Standard for Chimneys, Fireplaces, Vents and Solid Fuel-burning Appliances	IFGC	IMC	IBC	IRC®
221— 24 <u>24</u>	Standard for High Challenge Fire Walls, Fire Walls and Fire Barrier Walls	IBC			
22— 48 <u>23</u>	Standard for Water Tanks for Private Fire Protection	IFC			
232— 47 <u>22</u>	Standard for the Protection of Records	IFC			

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241— 19 <u>22</u>	Standard for Safeguarding Construction, Alteration and Demolition Operations	IFC	
24— 19 <u>22</u>	Standard for Installation of Private Fire Service Mains and Their Appurtenances	IFC	
252— 17 <u>22</u>	Standard Methods of Fire Tests of Door Assemblies	IBC	
253— 19 <u>23</u>	Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source	IBC	IFC
257— 17 <u>22</u>	Standard for Fire Test for Window and Glass Block Assemblies	IBC	
259— 18 <u>23</u>	Standard Test Method for Potential Heat of Building Materials	IBC	IRC®
25— 20 <u>23</u>	Standard for the Inspection, Testing and Maintenance of Water-based Fire Protection Systems	IPMC	IFC
260— 19 <u>23</u>	Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture	IFC	
261— 19 <u>23</u>	Standard Method of Test for Determining Resistance of Mock-up Upholstered Furniture Material Assemblies to Ignition by Smoldering Cigarettes	IFC	
262— 19 <u>23</u>	Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-handling Spaces	IMC	
265— 19 <u>23</u>	Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls	IBC	IFC

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268—19 <u>22</u>	Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source	IBC			
275—17 <u>22</u>	Standard Method of Fire Tests for the Evaluation of Thermal Barriers	IBC		IRC®	
276—19	Standard Method of Fire Tests for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-deck Roofing Components	IBC			
276—15 <u>23</u>	Standard Method of Fire Tests for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components	IRC®			
285—19 <u>22</u>	Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Nonload-bearing Wall Assemblies Containing Combustible Components	IBC			
286—15 <u>23</u>	Standard Methods of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth	IBC			
288—17 <u>22</u>	Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal in Fire-resistance-related floor Systems <u>Rated Assemblies</u>	IBC			
289—19 <u>23</u>	Standard Method of Fire Test for Individual Fuel Packages	IBC		IFC	
2—19	Hydrogen Technologies Code	IFGC		IMC	
30A—21 <u>24</u>	Code for Motor Fuel Dispensing Facilities and Repair Garages	IFGC	IMC	IBC	IFC
30B—19 <u>23</u>	Code for the Manufacture and Storage of Aerosol Products	IFC			
30—21 <u>24</u>	Flammable and Combustible Liquids Code	IBC		IFC	

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318— 18 <u>22</u>	Standard for the Protection of Semiconductor Fabrication Facilities	IFC		
32— 16 <u>21</u>	Standard for Dry Cleaning Facilities	IBC	IFC	
33— 18 <u>21</u>	Standard for Spray Application Using Flammable or Combustible Materials	IFC		
34— 18 <u>21</u>	Standard for Dipping, Coating and Printing Processes Using Flammable or Combustible Liquids	IFC		
35— 16 <u>21</u>	Standard for the Manufacture of Organic Coatings	IFC		
37— 18 <u>21</u>	Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines	IFGC	IMC	
385— 17 <u>22</u>	Standard for Tank Vehicles for Flammable and Combustible Liquids	IFC		
400— 19 <u>22</u>	Hazardous Materials Code	IFC		
407— 17 <u>22</u>	Standard for Aircraft Fuel Servicing	IFC		
409— 16 <u>22</u>	Standard for for <u>on</u> Aircraft Hangars	IFGC	IBC	IFC
40— 19 <u>22</u>	Standard for the Storage and Handling of Cellulose Nitrate Film	IBC	IFC	
418— 16 <u>21</u>	Standard for Heliports	IBC		
45— 19 <u>23</u>	Standard on Fire Protection Laboratories Using Chemicals (2015 Edition)	IBC	IFC	
484— 19 <u>22</u>	Standard for Combustible Metals	IBC	IFC	
495— 18 <u>23</u>	Explosive Materials Code	IFC		
498— 18 <u>23</u>	Standard for Safe Havens and Interchange Lots for Vehicles Transporting Explosives	IFC		

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501— 17 <u>22</u>	Standard on Manufactured Housing	IRC®			
505— 18 <u>23</u>	Fire Safety Standard for Powered Industrial Trucks, Including Type Designations, Areas of Use, Maintenance and Operation	IFC			
51— 18 <u>23</u>	Design and Installation of Oxygen-fuel Gas Systems for Welding, Cutting and Allied Processes	IFGC	IPC	IFC	
52— 19 <u>22</u>	Vehicular Gaseous Fuel System Code	IFC			
55— 19 <u>23</u>	Compressed Gases and Cryogenic Fluids Code	IPC	IFC		
56— 20 <u>23</u>	Standard for Fire and Explosion Prevention during Cleaning and Purging of Flammable Gas Piping Systems	IFC			
58— 17 <u>23</u>	Liquefied Petroleum Gas Code	IFGC			
58— 20 <u>23</u>	Liquefied Petroleum Gas Code	IMC	IBC	IFC	IRC®
59A— 19 <u>22</u>	Standard for the Production, Storage and Handling of Liquefied Natural Gas (LNG)	IFC			
655— 17 <u>19</u>	Standard for the Prevention of Sulfur Fires and Explosions	IBC	IFC		
68— 13 <u>23</u>	Standard on Explosion Protection by Deflagration Venting	IFC			
701— 19 <u>23</u>	Standard Methods of Fire Tests for Flame Propagation of Textiles and Films	IBC	IFC		
703— 21 <u>24</u>	Standard for Fire Retardant-treated Wood and Fire-retardant Coatings for Building Materials	IFC			
704— 17 <u>22</u>	Standard System for the Identification of the Hazards of Materials for Emergency Response	IMC	IBC	IFC	

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72— 19 <u>22</u>	National Fire Alarm and Signaling Code	IMC			
750— 19 <u>23</u>	Standard on Water Mist Fire Protection Systems	IPMC	IBC	IFC	
76— 16 <u>20</u>	Standard for the Fire Protection of Telecommunications Facilities	IFC			
77— 14 <u>24</u>	Recommended Practice on Static Electricity	IFC			
780— 17 <u>23</u>	Standard for the Installation of Lightning Protection Systems	IFC			
80— 19 <u>22</u>	Standard for Fire Doors and Other Opening Protectives	IMC	IPMC	IBC	IFC
85— 19 <u>23</u>	Boiler and Combustion System Hazards Code	IFGC	IMC	IBC	IFC
86— 19 <u>23</u>	Standard for Ovens and Furnaces	IFC			
88A— 19 <u>23</u>	Standard for Parking Structures	IFGC			
914— 19 <u>23</u>	Code for Fire Protection of Historic Structures	IFC			
92— 18 <u>21</u>	Standard for Smoke Control Systems	IMC	IBC	IFC	
96— 20 <u>24</u>	Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations	IMC		IFC	
99— 21 <u>24</u>	Health Care Facilities Code	IMC	IPC	IBC	IFC
1221 <u>1225</u> — 19 <u>2022</u>	Standard for the Installation, Maintenance and Use of Emergency Services Communications Systems	IFC			
NFPA 101— 21 <u>24</u>	Life Safety Code	IEBC			
NFPA 13R—19	Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height	IEBC			

NFPA 99—21	Health Care Facilities Code	IEBC	
NFRC		National Fenestration Rating Council, Inc.	
Standard Reference Number	Title	Referenced in Code(s):	
100— 2020 <u>2023</u>	Procedure for Determining Fenestration Products U-factors	IECC®	IRC®
200— 2020 <u>2023</u>	Procedure for Determining Fenestration Product Solar Heat Gain Coefficients and Visible Transmittance at Normal Incidence	IECC®	IRC®
203— 2017 <u>2023</u>	Procedure for Determining Translucent Fenestration Product Visible Transmittance at Normal Incidence <u>Procedure for Determining Visible Transmittance of Tubular Daylighting Devices</u>	IECC®	
400— 2020 <u>2023</u>	Procedure for Determining Fenestration Product Air Leakage	IECC®	IRC®
NSF		NSF International	
Standard Reference Number	Title	Referenced in Code(s):	
14— 2017 <u>2020</u>	Plastic Piping System Components and Related Materials	IMC	IRC®
14— 2018 <u>2020</u>	Plastic Piping System Components and Related Materials	IPC	
184— 2014 <u>2019</u>	Residential Dishwashers	IPC	
18— 2016 <u>2020</u>	Manual Food and Beverage Dispensing Equipment	IPC	
350— 2017a <u>2020</u>	Onsite Residential and Commercial Water Reuse Treatment Systems	IPC	IRC®
358-1— 2017 <u>2021</u>	Polyethylene Pipe and Fittings for Water-based Ground-source "Geothermal" Heat Pump Systems	IMC	IRC®

358-3— 2016 <u>2021</u>	Cross-linked Polyethylene (PEX) Pipe and Fittings for Water-based Ground-source (Geothermal) Heat Pump Systems	IMC	IRC®
358-4— 2017 <u>2018</u>	Polyethylene of Raised Temperature (PE-RT) Pipe and Fittings for Water-based Ground-source (Geothermal) Heat Pump Systems	IMC	IRC®
359— 2011(R2016) <u>2018</u>	Valves for Crosslinked Polyethylene (PEX) Water Distribution Tubing Systems	IPC	IRC®
372— 2016 <u>2020</u>	Drinking Water Systems Components—Lead Content	IPC	IRC®
3— 2017 <u>2019</u>	Commercial Warewashing Equipment	IPC	
40— 2016 <u>2020</u>	Residential Wastewater Treatment Systems	IPSDC	
41— 2016 <u>2018</u>	Nonliquid Saturated Treatment Systems (Composing Toilets)	IPSDC	IRC®
42— 2017 <u>2021</u>	Drinking Water Treatment Units—Aesthetic Effects	IRC®	
50— 2017 <u>2020</u>	Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational <u>Water</u> Facilities	IPC	IRC®
53— 2017 <u>2020</u>	Drinking Water Treatment Units—Health Effects	IPC	IRC®
58— 2017 <u>2020</u>	Reverse Osmosis Drinking Water Treatment Systems	IPC	IRC®
61— 2016 <u>2020</u>	Drinking Water System Components—Health Effects	IPC	IRC®
62— 2017 <u>2021</u>	Drinking Water Distillation Systems	IPC	IRC®
PDI	Plumbing and Drainage Institute		
Standard Reference Number	Title	Referenced in Code(s):	

PDI G101 (2012) <u>(2017)</u>	Testing and Rating Procedure for <u>Hydro Mechanical Grease Interceptors with Appendix of Sizing and Installation Data and Maintenance</u>	IPC
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PHTA	Pool & Hot Tub Alliance (formerly APSP)	
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Standard Reference Number	Title	Referenced in Code(s):
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ANSI/APSP/ICC 15— 2011 <u>2021</u>	American National Standard for Residential Swimming Pool and Spa <u>Energy Efficiency includes Addenda A Approved January 9, 2019</u>	ISPSC
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ANSI/APSP/ICC 16— 2017 <u>2022</u>	American National Standard for Suction Outlet Fittings (SOFA) for Use in Pools, Spas, and Hot Tubs	ISPSC
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ANSI/APSP/ICC 4— 2012 <u>2022</u>	American National Standard for Aboveground/Onground Residential Swimming Pools— <u>includes Addenda A Approved April 4, 2019</u>	ISPSC
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ANSI/APSP/ICC/NPC 12 - 2016 <u>2023</u>	American National Standard for the Plastering of Swimming Pools	ISPSC
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PLIB	Pacific Lumber Inspection Bureau (formerly WCLIB)	
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Standard Reference Number	Title	Referenced in Code(s):
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AITC 200— 09 <u>20</u>	Manufacturing Quality Control Systems Manual for Structural Glued Laminated Timber	IBC
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PSAI	Portable Sanitation Association International	
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Standard Reference Number	Title	Referenced in Code(s):
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PSAI/ANSI <u>ANSI/PSAI Z4.3—2016</u>	<u>American National Standard for Sanitation for Non-sewered Waste-disposal Systems; Minimum Requirements</u>	IPC
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RESNET	Residential Energy Services Network, Inc.	
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Standard Reference Number	Title	Referenced in Code(s):
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ANSI/RESNET/ICC 301— 2019 <u>2022</u>	Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units using an Energy Rating Index	IECC®		
ANSI/RESNET/ICC 380— 2019 <u>2022</u>	Standard for Testing Airtightness of Building, Dwelling Unit and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems, and Airflow of Mechanical Ventilation Systems	IECC®		
RMI		Rack Manufacturers Institute		
Standard Reference Number	Title	Referenced in Code(s):		
ANSI/MH16.1— 42 <u>21</u>	Specification for Design, Testing and Utilization of Industrial Steel Storage Racks	IBC		
SDI		Steel Deck Institute		
Standard Reference Number	Title	Referenced in Code(s):		
SDI-QA/QG-SD—2017 <u>2022</u>	Standard for Quality Control and Quality Assurance for Installation of Steel Deck <u>Standard for Steel Deck</u>	IBC		
SJI		Steel Joist Institute		
Standard Reference Number	Title	Referenced in Code(s):		
SJI 100— <u>2020</u>	45th Edition Standard Specifications, Load Tables and Weight Tables for K-Series, LH-Series, DLH-Series and Joist Girders	IBC		
SMACNA		Sheet Metal and Air Conditioning Contractors' National Association, Inc.		
Standard Reference Number	Title	Referenced in Code(s):		
SMACNA/ANSI ANSI/SMACNA 4th Edition— 2016 <u>2020</u>	HVAC Duct Construction Standards—Metal and Flexible, 4th Edition (ANSI) (ANSI/SMACNA 006-2020)	IFGC	IMC	IRC®

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SMAGNA/ANSI <u>ANSI/SMACNA — 2nd edition</u> 2013	Round Industrial Duct Construction Standards, 3rd <u>2nd Edition</u> (ANSI/SMACNA 005- 2013)	IMC
SMAGNA/ANSI ANSI/SMACNA — 2011 <u>2nd Edition 2004</u>	Rectangular Industrial Duct Construction Standards, 2nd <u>1st Edition</u> (ANSI/SMACNA 002- 2004)	IMC
SMACNA— <u>1st edition</u> 2015	SMACNA Phenolic Duct Construction Standards, 1st <u>2nd Edition</u> (ANSI) (ANSI/SMACNA 022-2015)	IMC
SMACNA— 10 <u>2021</u>	Fibrous Glass Duct Construction Standards 7th <u>8th</u> edition	IRC®
SMACNA— 2010 <u>2021</u>	Fibrous Glass Duct Construction Standards, 7th Edition <u>8th edition</u>	IMC
SMACNA— <u>2nd edition</u> 2012	HVAC Air Duct Leakage Test Manual Second Edition (ANSI/SMACNA 016-2012)	IECC®
SPRI Single-Ply Roofing Institute		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/SPRI GT-1— 2016 <u>21</u>	Test Standard for Gutter Systems	IBC
ANSI/SPRI VF-1— 17 <u>21</u>	External Fire Design Standard for Vegetative Roofs	IBC
ANSI/SPRI/FM 4435-ES-1— 17 <u>21</u>	Wind Test Design Standard for Edge Systems Used with Low Slope Roofing Systems	IBC
TIA Telecommunications Industry Association		
Standard Reference Number	Title	Referenced in Code(s):
ANSI/TIA 222-H— 2017 <u>1-2023</u>	Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures	IBC
TMS The Masonry Society		

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Standard Reference Number	Title	Referenced in Code(s):	
216— 2019 <u>14 (19)</u>	Standard Method Code Requirements for Determining Fire Resistance of Concrete and Masonry Construction Assemblies	IBC	
302—2018	Standard Method for Determining the Sound Transmission Class Rating s for Masonry Walls <u>Assemblies</u>	IBC	
402— 2016 <u>2022</u>	Building Code <u>Requirements</u> for Masonry Structures	IBC	IRC®
404— 2016 <u>2023</u>	Standard for the Design of Architectural Cast Stone	IBC	IRC®
504— 2016 <u>2023</u>	Standard for the Fabrication of Architectural Cast Stone	IBC	
602— 2016 <u>2022</u>	Specification for Masonry Structures	IBC	IRC®
604— 2016 <u>2023</u>	Standard for the Installation of Architectural Cast Stone	IBC	
TPI		Truss Plate Institute	
Standard Reference Number	Title	Referenced in Code(s):	
<u>ANSI/TPI 1—2014</u> <u>2022</u>	National Design Standard for Metal-plate-connected Wood Truss Construction	IBC	IRC®
UL		UL LLC	
Standard Reference Number	Title	Referenced in Code(s):	
1004-1—12	Rotating Electrical Machines General Requirements— with <u>revisions through August</u> 2019 <u>November 2020</u>	ISPSC	
1026—2012	Electric Household Cooking and Food Serving Appliances—with revisions through July 2018 <u>March 2021</u>	IRC®	

103—2010	Factory-built Chimneys, for Residential Type and Building Heating Appliances—with Revisions through March 2017 <u>September 2021</u>	IFGC	IMC	IBC	IRC®
1042—2009	Electric Baseboard Heating Equipment—with revisions through December 2016 <u>February 2021</u>	IRC®			
1081—2016	Swimming Pool Pumps, Filters and Chlorinators—with revisions through October 2017 <u>July 2020</u>	ISPSC			
109—97	Tube Fittings for Flammable and Combustible Fluids, Refrigeration Service and Marine Use <u>with revisions through May 2020</u>	IMC			
10A—2009	Tin Clad Fire Doors—with Revisions through July <u>20, 2018</u>	IBC			
10B—2008	Fire Tests of Door Assemblies—with Revisions through February 2015 <u>May 2020</u>	IBC			
10C—2016	Positive Pressure Fire Tests of Door Assemblies - <u>with revisions through May 2021</u>	IBC	IFC		
10D—2017	Standard for Fire Tests of Fire Protective Curtain Assemblies	IBC			
1240—2005	Electric Commercial Clothes-Drying Equipment—with revisions through March 2016 <u>September 2021</u>	IMC			
1261— <u>2001</u>	Electric Water Heaters for Pools and Tubs—with revisions through September 2017	IMC			
1275— 2014 <u>2021</u>	Flammable Liquid Storage Cabinets— <u>with revisions through February 2018</u>	IFC			
127—2011	Factory-built Fireplaces—with Revisions through July 2016 <u>February 2020</u>	IFGC	IMC	IBC	IECC® IRC®

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1316— 1994 <u>2018</u>	Glass-Fiber Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols and Alcohol-gasoline Mixtures <u>Flammable and Combustible Liquids—with revisions through May 2006 March 2019</u>	IFC		
1369—18	Standard for Aboveground Piping for Flammable and Combustible Liquids—with revisions through August 2020	IMC		
1370—11	Unvented Alcohol Fuel Burning Decorative Appliances—with revisions through March 25 , 2016	IMC		
1389— 2017 <u>19</u>	Plant Oil Extraction Units Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations—with revisions through October 2020	IFC		
142—2006	Steel Aboveground Tanks for Flammable and Combustible Liquids—with revisions through August 2014 <u>January 2021</u>	IFC		
1479—2015	Fire Tests of Penetration Firestops <u>with revisions through May 2021</u>	IMC	IBC	IRC®
1482—2011	Solid-fuel Type Room Heaters—with Revisions through August 2015 <u>February 2020</u>	IMC	IBC	IRC®
1489—2016	Fire Tests of Fire Resistant Pipe Protection Systems Carrying Combustible Liquids—with revisions through October 2021	IBC		IFC
14B—2008	Sliding Hardware for Standard Horizontally Mounted Tin Clad Fire Doors—with Revisions through July 2017 <u>September 2021</u>	IBC		
14C—2006	Swinging Hardware for Standard Tin Clad Fire Doors Mounted Singly and in Pairs—with Revisions through July 2017 <u>October 2021</u>	IBC		

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1563—2009	Standard for Electric Spas, Hot Tubs and Associated Equipment— with revisions through October 2017 <u>September 2020</u>	IMC	ISPSC	IRC®
1703—2002	Flat-plate Photovoltaic Modules and Panels— with Revisions through September 2018 <u>November 2019</u>	IBC		IRC®
1738—2010	Venting Systems for Gas Burning Appliances, Categories II, III and IV with revisions through November 2014 <u>August 2021</u>	IFGC		IRC®
1741—2010	Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources— with Revisions through February 2019 <u>June 2021</u>	IBC	IFC	IRC®
174—04	Household Electric Storage Tank Water Heaters— with revisions through December 2016 <u>October 2021</u>		IMC	
1777— 2007 <u>2015</u>	Chimney Liners— with Revisions through April 2014 <u>2019</u>	IFGC	IMC	IBC
1784—2015	Air Leakage Tests of Door Assemblies with revisions through February 2020		IBC	
180— 2012 <u>2019</u>	Liquid-level Indicating Gauges for Oil Burner Fuels and Other Combustible Liquids— with revisions through May 2017 <u>August 2021</u>	IMC		IRC®
1812—2013	Ducted Heat Recovery Ventilators— with revisions through July 2018 <u>April 2021</u>		IMC	
1815—2012	Nonducted Heat Recovery Ventilators— with revisions through July 2018 <u>April 2021</u>		IMC	
181— 05 <u>13</u>	Factory-made Air Ducts and Air Connectors— with revisions through April 2017		IMC	

1887—04	Fire Tests of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics—with revisions through July 2017 <u>October 2021</u>	IMC			
1897—2015	Uplift Tests for Roof Covering Systems with revisions through <u>September 2020</u>	IBC	IRC®		
1974— 2017 <u>2018</u>	Standard for Evaluation for Repurposing Batteries	IFC			
1978—2010	Grease Ducts—with revisions through April 2017 <u>October 2021</u>	IMC			
1994—2015	Luminous Egress Path Marking Systems <u>with revisions through</u> <u>July 2020</u>	IBC	IFC		
1996—2009	Electric Duct Heaters—with revisions through July 2016 <u>September 2021</u>	IMC	IRC®		
2011—2019	Outline for <u>investigation for</u> Machinery <u>with revisions through</u> <u>October 2020</u>	IFC			
2017—2008	General-purpose Signaling Devices and Systems—with revisions through January 2016 <u>December 2016</u>	IFC	ISPSC		
2024—2014	Safety Optical-fiber Cable Routing Assemblies and Communications Cable Raceway—with revisions through August 2015	IMC			
2075—2013	Standard for Gas and Vapor Detectors and Sensors with Revisions through December 2017 <u>August 2021</u>	IMC	IBC	IFC	IRC®
2079—2015	Tests for Fire Resistance of Building Joint Systems - <u>with</u> <u>revisions through July 2020</u>	IBC	IFC		
207—2009	Refrigerant-containing Components and Accessories, Nonelectrical—with revisions through June 2014 <u>January 2020</u>	IMC			

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2152— 2016 <u>2021</u>	Outline of Investigation for Special Purpose Nonmetallic Containers and Tanks for Specific Combustible or Noncombustible Liquids	IFC				
2158A—2013	Outline of Investigation for Clothes Dryer Transition Duct— with revisions through April 2017 <u>October 2021</u>	IFGC	IMC	IRC®		
2158— 2018 <u>2021</u>	Electric Clothes Dryers	IMC				
2162—2014	Outline of Investigation for Commercial Wood-fired Baking Ovens—Refractory Type -with <u>revisions through August 2019</u>	IMC				
217—2015	Single and Multiple Station Smoke Alarms—with Revisions through November 2016 <u>April 2021</u>	IBC	IFC	IRC®		
2196—2017	Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control and Data Cables - with revisions through <u>December 2020</u>	IBC		IFC		
2200— 2012 <u>2020</u>	Stationary Engine Generator Assemblies— with Revisions through October 2015	IFGC	IMC	IBC	IFC	IRC®
2208—2010	Solvent Distillation Units—with revisions through <u>June 2020</u>	IFC				
2518—2016	Air Dispersion Systems - <u>with revisions June 2021</u>	IMC				
2524—2019	Standard for In-building 2-way Emergency Radio Communication Enhancement Systems - <u>revisions through February 2019</u>	IFC				
263—11	Fire Tests of Building Construction and Materials—with Revisions through March 2018 <u>August 2021</u>	IBC				
268A—2008	Smoke Detectors for Duct Application—with revisions through August 2016 <u>2020</u>	IMC				

268—2016	Smoke Detectors for Fire Alarm Systems—with revisions through July 2016 <u>October 2019</u>	IMC	IPMC	IBC	IFC	IRC®
2703—2014	Mounting Systems, Mounting Devices, Clamping/Retention Devices and Ground Lugs for Use with Flat-plate Photovoltaic Modules and Panels—with Revisions through December 2019 <u>March 2021</u>	IBC		IRC®		
2846—2014	Fire Test of Plastic Water Distribution Plumbing Pipe for Visible Flame and Smoke Characteristics—with revisions through December 2016 <u>January 2021</u>	IMC				
300— 2005 <u>2019</u>	Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment—with revisions through December 2014	IFC				
30—1995	Metal Safety Cans—with revisions through June 2014 <u>September 2019</u>	IFC				
325—2017	Door, Drapery, Gate, Louver and Window Operations and Systems <u>with revisions through February 2020</u>	IBC	IFC		IRC®	
343— 2017 <u>2008</u>	Pumps for Oil-burning Appliances <u>with revisions through December 2017</u>	IMC		IRC®		
372—2007	Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Burner Ignition Systems and Components—with revisions through July 2012 <u>June 2012</u>	ISPSC				
391—2010	Solid-fuel and Combination-fuel Central and Supplementary Furnaces—with revisions through June 2014 <u>August 2019</u>	IMC				
399—2017	Drinking-Water Coolers—with revisions through August 2018 <u>July 2020</u>	IPC				

427—11	Standard for Refrigerating Units <u>with revisions through February 2014</u>	IMC		
430—2015	Waste Disposers—with revisions through February 2018 <u>September 2021</u>	IPC		
441—16	Gas Vents—with revisions through July 2016 <u>August 2019</u>	IRC®		
471—2010	Commercial Refrigerators and Freezers—with revisions through November 2018 <u>September 2019</u>	IMC		
484—14	Standard for Room Air Conditioners <u>with revisions through May 2019</u>	IMC		
507—2017	Electric Fans—with revisions through August 2018 <u>May 2020</u>	IMC	IRC®	
508—2018	Industrial Control Equipment <u>with revisions through July 2021</u>	IMC	IPC	IRC®
515—2015	Standard for Electrical Resistance Trace Heating for Commercial Applications	IECC®		
536— 2014 <u>2021</u>	Flexible Metallic Hose	IMC	IRC®	
555C—2014	Ceiling Dampers—with Revisions through May 2017 <u>January 2021</u>	IMC	IBC	
555S—2014	Smoke Dampers—with Revisions through October 2016 <u>2020</u>	IMC	IBC	
555—2006	Fire Dampers—with Revisions through October 2016 <u>2020</u>	IBC		
55A—2004	Materials for Built-up Roof Coverings	IBC	IRC®	
580—2006	Test for Uplift Resistance of Roof Assemblies—with Revisions through October 2018 <u>March 2019</u>	IBC	IRC®	

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60335-2-1000-17	Standard for Household and Similar Electrical Appliances: Particular Requirements for Electrically Powered Pool Lifts; with revisions through September 29, 2017	ISPSC		
60601-1—2003	Medical Electrical Equipment, Part I: General Requirements for Safety - <u>with revisions through April 2006</u>	IFC		
60950-1— 2014 <u>2007</u>	Information Technology Equipment—Safety Requirements <u>with revisions through May 2019</u>	IFC		
61730-1—2017	Photovoltaic (PV) Module Safety Qualification - Part 1: Requirements for Construction - <u>with revisions through April 2020</u>	IBC	IRC®	
61730-2—2017	Photovoltaic (PV) Module Safety Qualification - Part 2: Requirements for Testing - <u>with revisions through April 2020</u>	IBC	IRC®	
62368-1— 2014 <u>19</u>	Audio/video, Information and Communication Technology Equipment—Safety Requirements - <u>with revisions through October 2021</u>	IFC		
651—2011	Schedule 40 <u>and Schedule 80;</u> Type EB and A Rigid PVC Conduit and Fittings—with Revisions through June 2016 <u>March 2020</u>	IFGC	IRC®	
705—2017	Power Ventilators—with revisions through October 2018 <u>August 2021</u>	IFGC	IMC	IRC®
710B—2011	Recirculating Systems—with Revisions through August 2014 <u>February 2019</u>	IMC	IBC	IFC
710—12	Exhaust Hoods for Commercial Cooking Equipment—with Revisions through November 2019 <u>February 2021</u>	IECC®		

791—2006	Standard for Residential Incinerators— with revisions through November 2014 <u>February 2021</u>	IMC	IFC	
795—2016	Commercial-Industrial Gas Heating Equipment <u>with revisions through 2020</u>	IFGC	IRC®	
80—2007	Steel Tanks for Oil-burner Fuels and Other Combustible Liquids— with revisions through January 2014 <u>April 2019</u>	IFC	IRC®	
817—2015	Standard for Cord Sets and Power-supply Cords— with revisions through August 2018 <u>September 2021</u>	IFC		
834—04	Heating, Water Supply and Power Boilers Electric— with revisions through September 2018 <u>July 2019</u>	IMC		
834—2004	Heating, Water Supply and Power Boilers—Electric— with revisions through September 2018 <u>July 2019</u>	IRC®		
842— 2015 <u>2019</u>	Valves for Flammable Fluids— with revisions through May 2015	IMC	IRC®	
858—2014	Household Electric Ranges— with revisions through June 2018 <u>September 2019</u>	IMC	IRC®	
864—2014	Control Units and Accessories for Fire Alarm Systems— with Revisions through March 2018 <u>May 2020</u>	IMC	IBC	IFC
867—2011	Electrostatic Air Cleaners— with revisions through August 2018 <u>2021</u>	IMC		
875—09	Electric Dry-bath Heaters— with revisions through September 2017 <u>January 2021</u>	IRC®		

87A—2015	Power-operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent—with revisions through June 2017 <u>September 2019</u>	IFC		
923—2013	Microwave Cooking Appliances— with revisions through July 2017 <u>August 2020</u>	IMC	IRC®	
924—2016	Standard for Safety Emergency Lighting and Power Equipment— with Revisions through May 2018 <u>2020</u>	IBC	IFC	
9540A— 2017 <u>2019</u>	Standard for Safety Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems	IFC		
9540— 2016 <u>2020</u>	Energy Storage Systems and Equipment - <u>with revisions through April 2021</u>	IFC	IRC®	
959—2010	Medium Heat Appliance Factory-built Chimneys—with Revisions through June 2014 <u>August 2019</u>	IFGC	IMC	IRC®
9—2009	Fire Tests of Window Assemblies —with Revisions through February 2015 <u>March 2020</u>	IBC		
UL/CSA 60335-2-40— 17 <u>2019</u>	Household and Similar Electrical Appliances—Safety—Part 2- 40 : Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers <u>Motor-Compressors</u>	IMC		
UL/CSA 60335-2-89— 17 <u>21</u>	Household and Similar Electrical Appliances—Safety—Part 2-89: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Unit or Compressor	IMC		
WDMA		Window and Door Manufacturers Association		
Standard Reference Number	Title	Referenced in Code(s):		

AAMA/WDMA/CSA 101/I.S.2/A440— 17 <u>22</u>	Specifications for Windows, Doors and Unit Skylights	IBC	IECC®	IRC®
I.S. 11— 16 <u>23</u>	Industry Standard Analytical Method for Design Pressure (DP) Ratings of Fenestration Products	IRC®		
WMA	World Millwork Alliance (formerly Association of Millwork Distributors Standards AMD)			
Standard Reference Number	Title	Referenced in Code(s):		
ANSI WMA 100— 2018 <u>2023</u>	Standard Method of Determining Structural Performance Ratings of Side-Hinged Exterior Door Systems and Procedures for Component Substitution	IRC®		

Reason: The CP28 Code Development Policy, Section 4.6 requires the updating of referenced standards to be accomplished administratively, and be processed as a Code Change Proposal for consideration by the Administrative Code Change Committee. In September 2021, a letter was sent to each developer of standards that is referenced in the International Codes, asking them to provide ICC with a list of their standards in order to update to the current edition. Listed are the referenced standards that are to be updated based upon responses received from standard developers.

Cost Impact: The code change proposal will not increase or decrease the cost of construction
Not applicable.

TAC: Electrical

Total Mods for **Electrical** in **Pending Review** : 6

Total Mods for report: 6

Sub Code: Building

3

E10956		/G14-22	
Date Submitted	03/08/2024	Section	116.1
Chapter	2708	Affects HVHZ	Yes
Proponent	Mo Madani		
Attachments	Yes		
TAC Recommendation	Pending Review		
Commission Action	Pending Review		
Staff Classification	Overlap		

Comments

General Comments No

Related Modifications

Original text of mod is not consistent with that of the 2023 FBC - B.

Summary of Modification

NFPA 70 Section 600.3 requires electric signs to be listed and labeled. This proposal clarifies that electric signs as an assembly are to be listed and labeled to UL 48, and to be installed in accordance with the manufacturers installation instructions.

Rationale

See attached

E10956 Text Modification

See attached

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G14-22

Original Proposal

IBC: H106.3 (New), TABLE H116.1

Proponents: Jonathan Roberts, UL, UL (jonathan.roberts@ul.com)

THIS CODE CHANGE WILL BE HEARD BY THE INTERNATIONAL BUILDING CODE-STRUCTURAL COMMITTEE. SEE THE TENTATIVE HEARING ORDER FOR THIS COMMITTEES.

2021 International Building Code

APPENDIX H SIGNS

SECTION H106 ELECTRICAL

Add new text as follows:

H106.3 Listing. Electric signs shall be listed and labeled in accordance with UL 48, and shall be installed in accordance with the manufacturer's installation instructions.

Revise as follows:

TABLE H116.1 REFERENCED STANDARDS

STANDARD ACRONYM	STANDARD NAME	SECTIONS HEREIN REFERENCED
ASTM D635-14	<i>Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position</i>	H107.1.1
NFPA 70-20	<i>National Electrical Code</i>	H106.1, H106.2
NFPA 701-19	<i>Methods of Fire Test for Flame Propagation of Textiles and Films</i>	H106.1.1
UL 48-11	<i>Electric Signs, with revisions through March 2021</i>	H106.1

Reason: NFPA 70 Section 600.3 requires electric signs to be listed and labeled. This proposal clarifies that electric signs as an assembly are to be listed and labeled to UL 48, and to be installed in accordance with the manufacturers installation instructions. Electric signs covered by UL 48 include all signs (regardless of voltage) that are electrically operated and/or electrically illuminated.

Cost Impact: The code change proposal will not increase or decrease the cost of construction. Electric signs are required by NFPA 70 to be listed and labeled. This clarifies the requirements for signs and therefore there is no additional cost.

Public Hearing Results

Committee Action

As Submitted

THIS CODE CHANGE WAS HEARD BY THE IBC-STRUCTURAL COMMITTEE.

Committee Reason: Approved as submitted as the proposal provides appropriate guidance on listing of electric signs. (Vote: 14-0)

E10956 Text Modification

Final Hearing Results

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AS

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TAC: Electrical

Total Mods for **Electrical** in **Pending Review** : 6

Total Mods for report: 6

Sub Code: Existing Building

E10689		/EB43-22		4	
Date Submitted	03/04/2024	Section	406.1	Proponent	Mo Madani
Chapter	4	Affects HVHZ	Yes	Attachments	Yes
TAC Recommendation	Pending Review			Staff	Correlates
Commission Action	Pending Review			Classification	Directly

Comments

General Comments No

Related Modifications

Covered under section 407 of the 2023 FBC - EB.

Summary of Modification

This proposal is intended to update the requirements in the IEBC to match that of the current edition of NFPA 70 the NEC

Rationale

See attached

E10689 Text Modification

See attached

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EB43-22

Original Proposal

IEBC: SECTION 406, 406.1, 406.1.1 (New), 406.1.1, 406.1.2, 406.1.3, 406.1.4, 406.1.5

Proponents: Mike Nugent, Chair, Building Code Action Committee (bcac@iccsafe.org)

2021 International Existing Building Code

SECTION 406 ELECTRICAL

Revise as follows:

406.1 Material General. ~~Repairs to existing~~ Existing electrical wiring and equipment ~~undergoing repair~~ shall be allowed to be repaired or replaced with like material in accordance with NFPA 70.

Add new text as follows:

406.1.1 Reconditioned Electrical Equipment. Reconditioned electrical equipment shall comply with NFPA 70. Electrical equipment prohibited from being reconditioned by the applicable sections of NFPA 70 shall not be reconditioned.

Delete without substitution:

406.1.1 Receptacles. ~~Replacement of electrical receptacles shall comply with the applicable requirements of Section 406.4(D) of NFPA 70.~~

406.1.2 Plug fuses. ~~Plug fuses of the Edison-base type shall be used for replacements only where there is no evidence of over fusing or tampering per applicable requirements of Section 240.51(B) of NFPA 70.~~

406.1.3 Nongrounding-type receptacles. ~~For replacement of nongrounding-type receptacles with grounding-type receptacles and for branch circuits that do not have an equipment grounding conductor in the branch circuitry, the grounding conductor of a grounding-type receptacle outlet shall be permitted to be grounded to any accessible point on the grounding electrode system or to any accessible point on the grounding electrode conductor in accordance with Section 250.130(C) of NFPA 70.~~

Revise as follows:

406.1.4 406.1.2 Health care facilities. ~~Portions of electrical systems being repaired in Group I-2, ambulatory care facilities and outpatient clinics shall comply with NFPA 99 requirements for repairs.~~

Delete without substitution:

406.1.5 Grounding of appliances. ~~Frames of electric ranges, wall-mounted ovens, counter-mounted cooking units, clothes dryers and outlet or junction boxes that are part of the existing branch circuit for these appliances shall be permitted to be grounded to the grounded circuit conductor in accordance with Section 250.140 of NFPA 70.~~

Reason: The 2020 National Electrical Code (NEC) was revised to include requirements for reconditioned electrical equipment. Numerous sections were added to identify whether a specific piece of electrical equipment was suitable to be reconditioned. Not all electrical equipment is suitable to be reconditioned, rebuilt or remanufactured due to its design features or critical role in electrical safety. For example, a molded case circuit breaker by design is not able to be opened and reconditioned. Molded case circuit breakers that are subjected to flood or fire damage can't be reconditioned and must be replaced. The 2020 NEC includes requirements for specific equipment

that cannot be reconditioned, such as molded case circuit breakers.

This proposal is intended to update the requirements in the IBC to match that of the current edition of NFPA 70 the NEC. Section 406.1 was modified to include a reference to NFPA 70 for reconditioning. A new section 406.1.1 was added to clarify what equipment can be reconditioned and to identify the requirements that reconditioned electrical equipment be specifically marked in accordance with Section 110.21(A)(2) of NFPA 70.

The existing Sections 406.1.1, 406.1.2, 406.1.3 and 406.1.5 were deleted since these sections were repeats of requirements found in NFPA 70. There are differences between the requirements as written in the 2020 NEC and the existing sections in the IBC. The requirements found in the sections are best left in NFPA 70. Additionally, the existing Section 406.1.4 was renumbered to 406.1.2 and left since this section references NFPA 99 for health care facilities.

This proposal is submitted by the ICC Building Code Action Committee (BCAC). BCAC was established by the ICC Board of Directors in July 2011 to pursue opportunities to improve and enhance assigned International Codes or portions thereof. In 2020 and 2021 the BCAC has held several virtual meetings open to any interested party. In addition, there were numerous virtual Working Group meetings for the current code development cycle, which included members of the committee as well as interested parties. Related documents and reports are posted on the BCAC website at <https://www.iccsafe.org/products-and-services/i-codes/code-development/cs/building-code-action-committee-bcac/>.

Cost Impact: The code change proposal will not increase or decrease the cost of construction

This proposal will provide direction to the appropriate existing requirements for repair and reconditioning of electrical systems. The current provisions were not aligned with NFPA 70. These revisions simply makes the requirements consistent for enforcement and will not increase costs.

Public Hearing Results

Committee Action

As Modified

Committee Modification:

406.1.1 Reconditioned Electrical Equipment. Reconditioned electrical equipment shall comply with NFPA 70. Electrical equipment prohibited from being reconditioned by the applicable sections of NFPA 70 shall not be reconditioned, unless permitted by NFPA 99.

Committee Reason: This proposal was approved as it aligns the requirements related to repairs and reconditioning with NFPA 70. There was some concern that Section 604.3 of the IPMC needs to be updated in the future to be consistent. The modification includes a specific reference to NFPA 99 since the reference under the repair language will not apply to reconditioning within healthcare occupancies. (Vote: 14-0)

Final Hearing Results

EB43-22

AM

TAC: Electrical

Total Mods for Electrical in Pending Review : 6

Total Mods for report: 6

Sub Code: Residential

E11422		/RB88-22		5	
Date Submitted	03/26/2024	Section	309.6	Proponent	Mo Madani
Chapter	3	Affects HVHZ	Yes	Attachments	Yes
TAC Recommendation	Pending Review			Staff	Correlates
Commission Action	Pending Review			Classification	Directly

Comments

General Comments No

Related Modifications

Summary of Modification

Adds new Section R309.6 "Electric vehicle charging systems.". Adds new reference standards UL 2202-2009 and UL 2594-2016.

Rationale

See attached

E11422 Text Modification

See attached

Page: 1

Mod11422_ TextOfModification.pdf

RB88-22

Original Proposal

IRC: R309.6 (New), UL Chapter 44 (New)

Proponents: Larry Sherwood, INTERSTATE RENEWABLE ENERGY COUNCIL, Solar Energy Action Committee (Larry@irecusa.org); Kevin Reinertson, Riverside County Fire Dept. OFM, California Fire Chiefs Association FPO (kevin.reinertson@fire.ca.gov); Benjamin Davis, California Solar & Storage Association, California Solar & Storage Association (ben@calssa.org); Philip Oakes, NASFM, National Association of State Fire Marshals; Joseph H. Cain, P.E., Solar Energy Industries Association (SEIA), Solar Energy Industries Association (SEIA) (joecainpe@gmail.com); Mike Nugent, Chair, Building Code Action Committee (bcac@iccsafe.org)

2021 International Residential Code

Add new text as follows:

R309.6 Electric vehicle charging systems. Where provided, electric vehicle charging systems shall be installed in accordance with NFPA 70. Electric vehicle charging system equipment shall be listed and labeled in accordance with UL 2202. Electric vehicle supply equipment shall be listed and labeled in accordance with UL 2594.

Add new standard(s) as follows:

UL

UL LLC
333 Pfingsten Road
Northbrook, IL 60062

2202–2009

Electric Vehicle (EV) Charging System Equipment—with Revisions through February 2018

2594–2016

Electric Vehicle Supply Equipment

Reason: Electric vehicles are rapidly becoming more common. This proposal is in alignment with the requirements in both the 2018 and 2021 IBC for motor vehicle-related occupancies (IBC Section 406.2.7), which includes private garages. These requirements on how to install these systems should also be in the IRC, for those installations where these systems are provided.

This proposal was prepared by the Sustainable Energy Action Committee (SEAC), a forum for all stakeholders (including, but not limited to, AHJs, designers, engineers, contractors, first responders, manufacturers, suppliers, utilities, and testing labs) to collaboratively identify and find solutions for issues that affect the installation and use of solar energy systems, energy storage systems, demand response, and energy efficiency. The purpose is to facilitate the deployment and use of affordable, clean and renewable energy in a safe, efficient, and sustainable manner.

All recommendations from SEAC are approved by diverse stakeholders through a consensus process.

BCAC REASON: Electric vehicles are rapidly becoming more common. This proposal is in alignment with the requirements in both the 2018 and 2021 IBC for motor vehicle-related occupancies (IBC Section 406.2.7), which includes private garages. These requirements on how to install these systems should also be in the IRC, for those installations where these systems are provided.

This proposal is submitted by the ICC Building Code Action Committee (BCAC).

BCAC was established by the ICC Board of Directors in July 2011 to pursue opportunities to improve and enhance assigned International Codes or portions thereof. In 2020 and 2021 the BCAC has held several virtual meetings open to any interested party. In addition, there were numerous virtual Working Group meetings for the current code development cycle, which included members of the committee as well as interested parties. Related documents and reports are posted on the BCAC website at <https://www.iccsafe.org/products-and-services/i-codes/code-development/cs/building-code-action-committee-bcac/>.

Bibliography: Reference:

IBC 406.2.7 Electric vehicle charging stations and systems. Where provided, electric vehicle charging systems shall be installed in accordance with NFPA 70. Electric vehicle charging system equipment shall be listed and labeled in accordance with UL 2202. Electric

vehicle supply equipment shall be listed and labeled in accordance with UL 2594. Accessibility to electric vehicle charging stations shall be provided in accordance with Section 1108.

Cost Impact: The code change proposal will not increase or decrease the cost of construction

This proposal aligns with the requirements in the IBC. These systems are not mandated to be installed, but if they are, the installation should be done properly.

BCAC Cost Impact: This proposal aligns with the requirements in the IBC. These systems are not mandated to be installed, but if they are, the installation should be done properly.

Public Hearing Results

Committee Action

As Submitted

Committee Reason: The proposed text is for where electrical vehicle charging stations are required, so these requirements provide for a level of safety where these are installed. This is a correlation with requirements in the IBC. The title should be revised to match the text. (Vote: 9-1)

Final Hearing Results

RB88-22

AS

TAC: Electrical

Total Mods for Electrical in Pending Review : 6

Total Mods for report: 6

Sub Code: Residential

E11486		/RB158-22		6	
Date Submitted	03/27/2024	Section	328.1	Proponent	Mo Madani
Chapter	3	Affects HVHZ	Yes	Attachments	Yes
TAC Recommendation	Pending Review			Staff	Correlates
Commission Action	Pending Review			Classification	Directly

Comments

General Comments No

Related Modifications

Summary of Modification

Proposal intended to clarify what the product marking actually is. To align with the wording that will ultimately be in the standard. Concerning Energy storage systems.

Rationale

See attached

E11486 Text Modification

See attached

Page: 1

Mod11486_TextOfModification.pdf

RB158-22

Original Proposal

IRC: R328.1

Proponents: Larry Sherwood, INTERSTATE RENEWABLE ENERGY COUNCIL, Sustainable Energy Action Committee (Larry@irecusa.org); Kevin Reinertson, Riverside County Fire Dept. OFM, California Fire Chiefs Association FPO (kevin.reinertson@fire.ca.gov); Benjamin Davis, California Solar & Storage Association, California Solar & Storage Association (ben@calssa.org); Philip Oakes, NASFM, National Association of State Fire Marshals; Joseph H. Cain, P.E., Solar Energy Industries Association (SEIA), Solar Energy Industries Association (SEIA) (joecainpe@gmail.com)

2021 International Residential Code

Revise as follows:

R328.1 General. *Energy storage systems (ESS)* shall comply with the provisions of this section.

Exceptions:

1. *ESS listed and labeled* in accordance with UL 9540 and marked "~~For Suitable for use in residential dwelling units~~ habitable spaces" where installed in accordance with the manufacturer's instructions and NFPA 70.
2. *ESS less than 1 kWh (3.6 megajoules).*

Reason: Intended to clarify what the product marking actually is. To align with the wording that will ultimately be in the standard. This proposal was prepared by the Sustainable Energy Action Committee (SEAC), a forum for all stakeholders (including, but not limited to, AHJs, designers, engineers, contractors, first responders, manufacturers, suppliers, utilities, and testing labs) to collaboratively identify and find solutions for issues that affect the installation and use of solar energy systems, energy storage systems, demand response, and energy efficiency. The purpose is to facilitate the deployment and use of affordable, clean and renewable energy in a safe, efficient, and sustainable manner.

All recommendations from SEAC are approved by diverse stakeholders through a consensus process.

Cost Impact: The code change proposal will not increase or decrease the cost of construction. It aligns with the marking requirements in UL 9540.

Public Hearing Results

Committee Action

Disapproved

Committee Reason: The committee was not comfortable with the language for marking an ESS because the felt the proposed text is ambiguous and misleading when it comes to dwelling units. The testimony was that the testing standard, UL9540, is so high, no technology meets it yet. For ESS's in dwelling units it is important to be sure the standard is done correctly. (Vote 8-2)

Public Comments

Public Comment 1

Proponents: Larry Sherwood, INTERSTATE RENEWABLE ENERGY COUNCIL, Solar Energy Action Committee (larry@irecusa.org); Kevin Reinertson, Riverside County Fire Dept. OFM, California Fire Chiefs Association FPO (kevin.reinertson@fire.ca.gov); Benjamin

Davis, California Solar & Storage Association, California Solar & Storage Association (ben@calssa.org); Joseph H. Cain, P.E., Solar Energy Industries Association (SEIA), Solar Energy Industries Association (SEIA) (joecainpe@gmail.com); Philip Oakes, National Association of State Fire Marshals (admin@firemarshals.org) requests As Modified by Public Comment

Replace as follows:

2021 International Residential Code

R328.1 General. *Energy storage systems (ESS)* shall comply with the provisions of this section.

Exceptions:

1. *ESS listed and labeled for use in habitable spaces* in accordance with UL 9540 and marked "For use in residential dwelling units" where installed in accordance with the listing, the manufacturer's instructions and NFPA 70.
2. *ESS less than 1 kWh (3.6 megajoules).*

Commenter's Reason: The purpose of this code change proposal is to provide clarity where there is currently confusion regarding product markings.

As background, the text for the product marking that is currently in the code is in the current edition of the product standard UL 9540. This was added in the code by Public Comment 1 to RB154-19. That Public Comment was a consensus of all the ESS stakeholders. As noted in the Reason Statement for that Public Comment, the marking proposed in Section R327.1 was intended to exempt a UL 9540 listed ESS that will not go into thermal runaway or produce flammable gas when subjected to the UL 9540A Cell Level Test (for further detail, please also see the reason statement for Proposal RB157-18).

There is currently a proposal to UL 9540 to change the text of that marking, as well as additional clarifications on the testing required for the ability to apply such marking on an ESS. The reason for the proposed change to UL 9540 is because there has been a lot of confusion in the field regarding the current markings in UL 9540A pertaining to residential systems that may or may not employ battery technologies that meet the cell level performance criteria of UL 9540A, which is that thermal runaway was not able to be initiated and there was no venting of flammable gas. This is a very severe criteria, but if met, it would suggest that the battery energy storage system (BESS) does not present any greater fire hazard than another electrical appliance and can be installed anywhere in a residence including the habitable spaces. As of this date, we are not aware of technologies that can meet these criteria. Further, this marking has created considerable confusion in the market.

The Standards Technical Panel for UL 9540 is working on improving the markings to clarify what ESS products have been tested to appropriate requirements to determine suitability for use in habitable spaces. UL's Collaborative Standards Development System (CSDS) provides online access to review and submit proposals for UL's Standards development process. General access is available for information on STP meetings, submitting proposals, and access to free proposals. [For more information, click here](#), or go to www.ul.com/standards.

To address the confusion of the text of the marking currently identified in the IRC, this Public Comment is proposing to identify the intent, which is that this exception applies only where the ESS has been listed and labeled for specific use in habitable spaces, based on specific testing criteria in UL 9540.

Cost Impact: The net effect of the Public Comment and code change proposal will not increase or decrease the cost of construction. The modifications to this section removes confusion created by the specific text of the marking, will retaining the intent and purpose of the exception.

Final Hearing Results

RB158-22

AMPC1